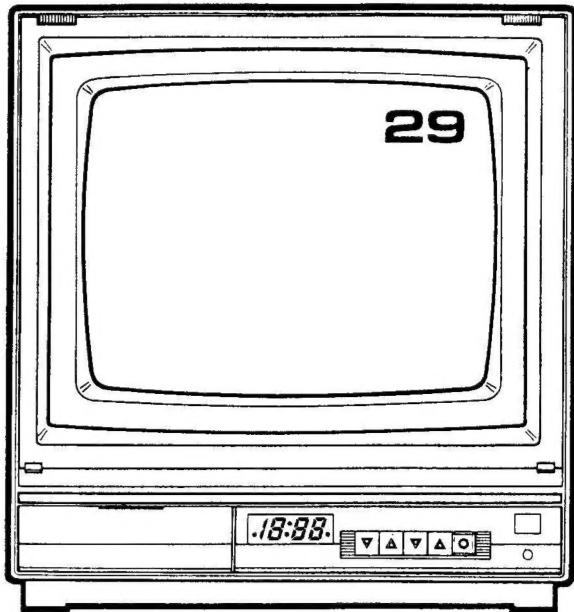


HiNARI

Service Manual



Sunrise
TVA 1

FEATURES

- 14" Portable Colour Television.
- Wake-up Alarm Function.
- Digital Clock & Time.
- Infra Red Remote Control.
- 30 Channels. On-screen Channel Display.
- Voltage Synthesizer Tuning. Tuning.

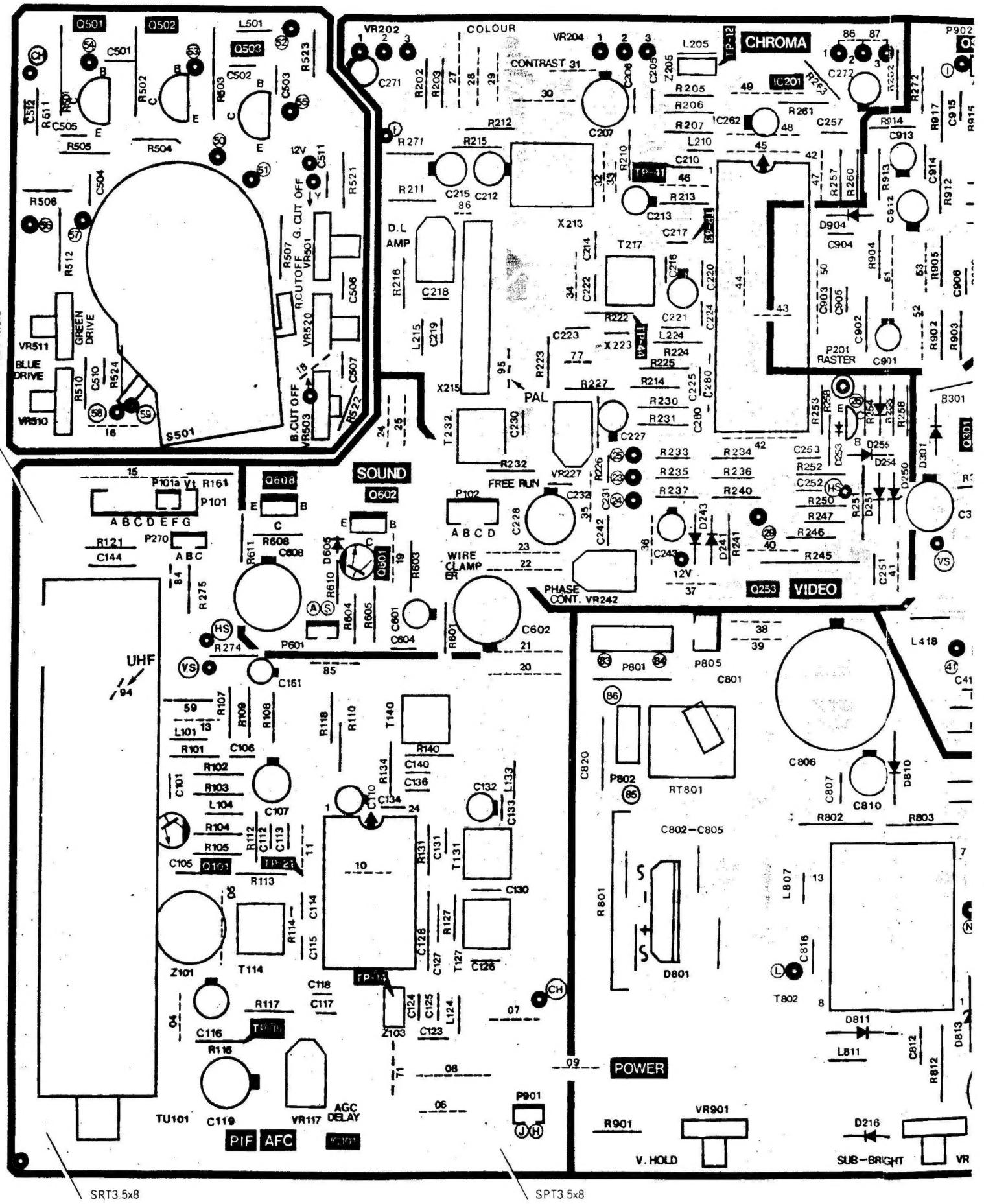
SPECIFICATIONS

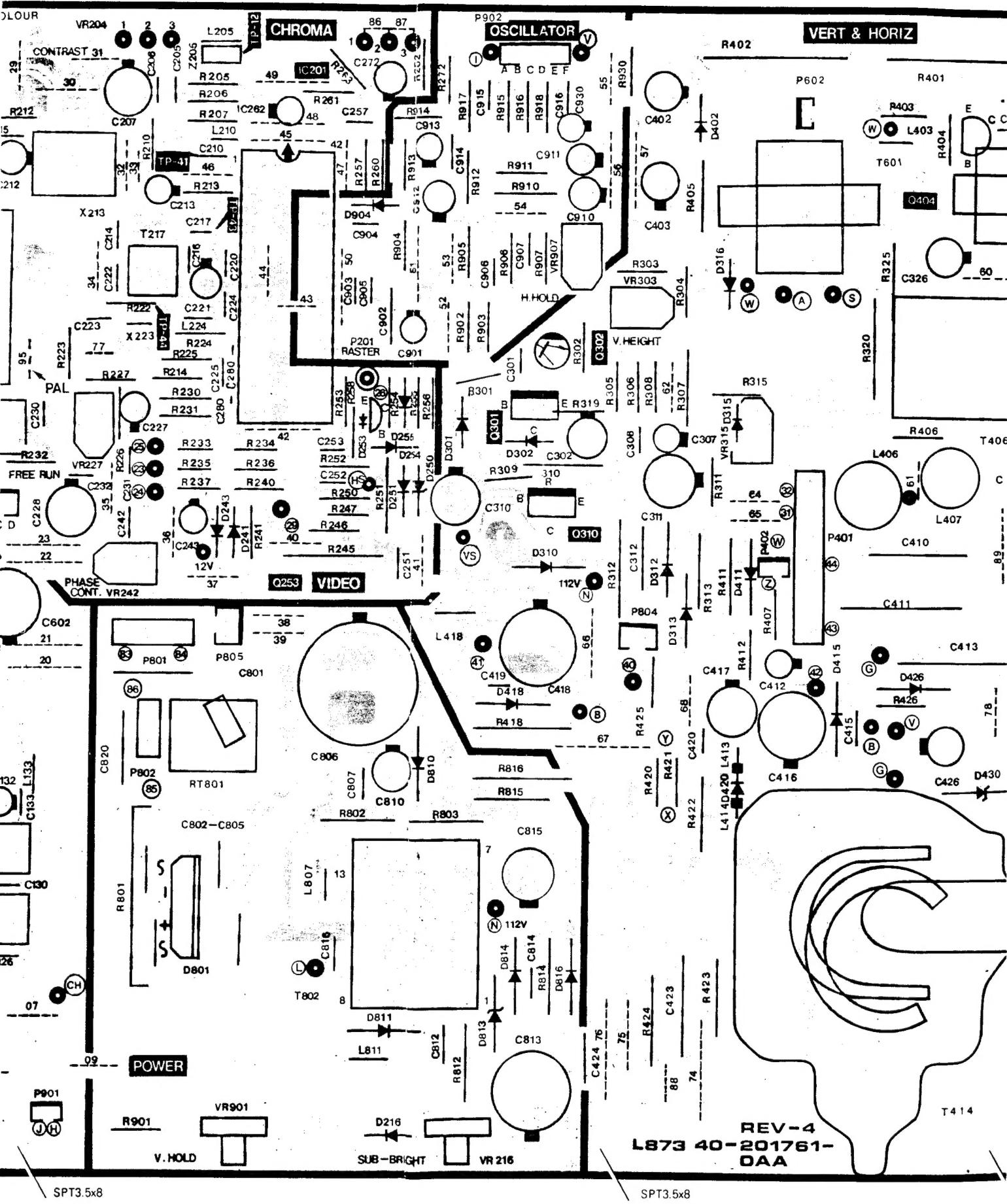
TV Broadcasting	PAL-1
Receiving Channels	UHF 21-69
Number of Preset	30 (0-29)
Program	
Channel Indicator	On Screen Display
RF Aerial Input	75 ohm Unbalanced
Picture Tube	36 cm (14")
Timer On Clock	90 Degree In-Line Gun
Timer On Screen	Return to standby after 2 hours. Return to standby after 30, 60, 90 mins.

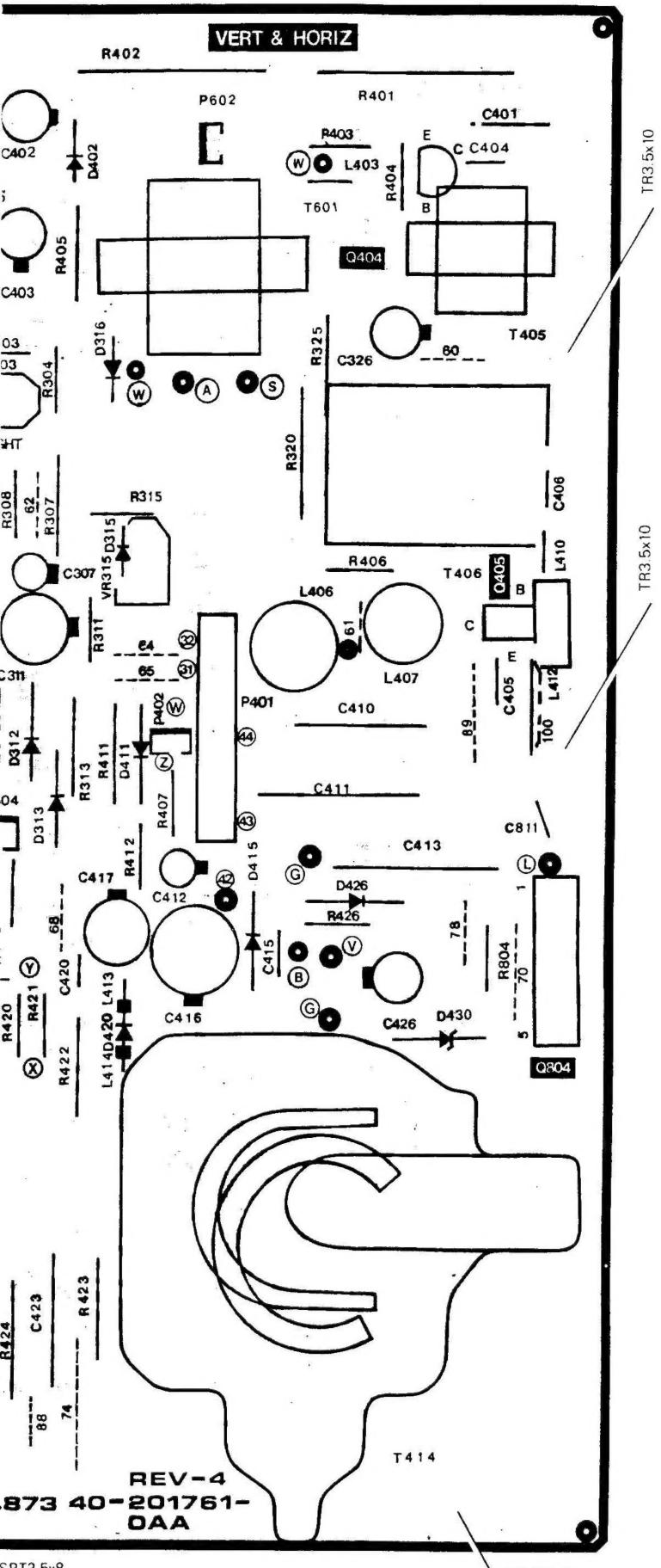
Speaker	Dia. 89 mm 16 ohm
Audio Output Power	1.5W max
Operating Voltage	AC 240V 50Hz
Power Consumption	70W
Dimensions	380x385x400mm (WxHxD)
Net Weight	13 kg
Infrared Remote Control	
Features	Standby, 0-9 and 10- and 20-key Keypad, Random Access Program Select, Program Down-Up, Volume Down-Up, Mute, Colour/Brightness Down-UP Off Timer, Display
Effective Distance	8 meters
Power	3V Batteries, 2 x type AAA or type UM4, 1.5V Alkaline batteries, NOT included
Dimensions	170x59x15mm (LxWxH)
Net Weight	80g

* Design and specifications subject to change without prior notice.

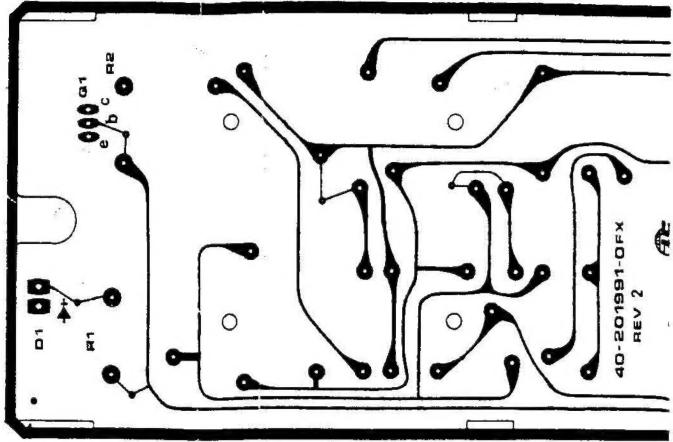
40-201761-OAA MAIN BOARD



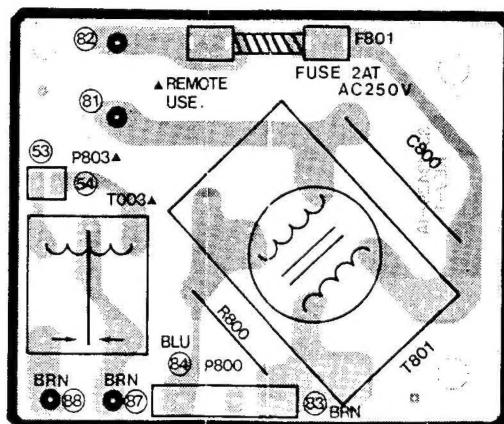




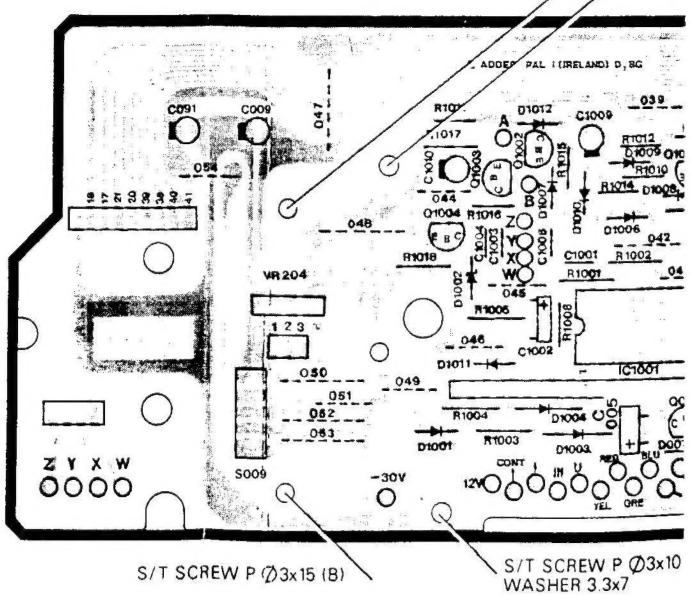
40-201991-OFX IR TRANSMITTER



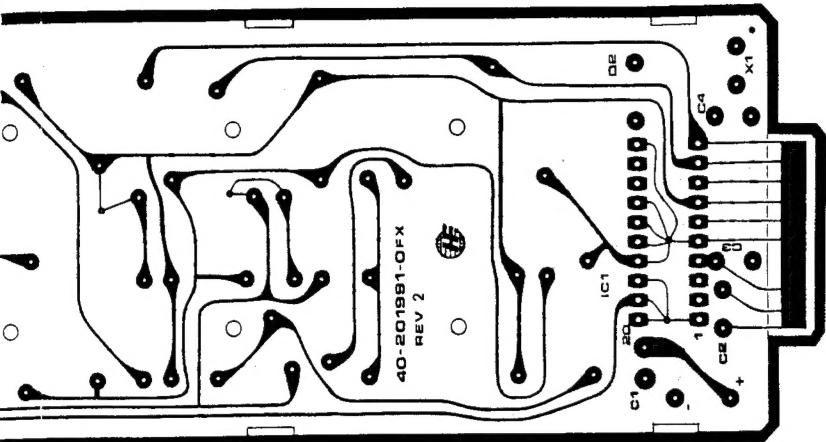
33-134291-AAA POWER BOARD



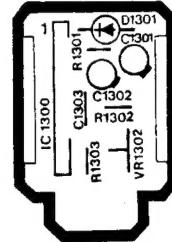
40-201751-OAA SELECTOR BOARD



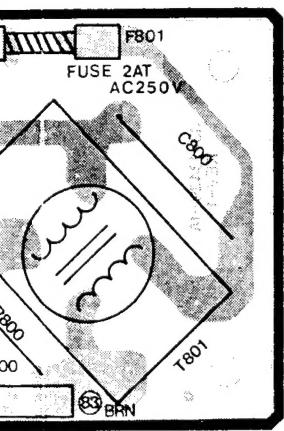
IR TRANSMITTER



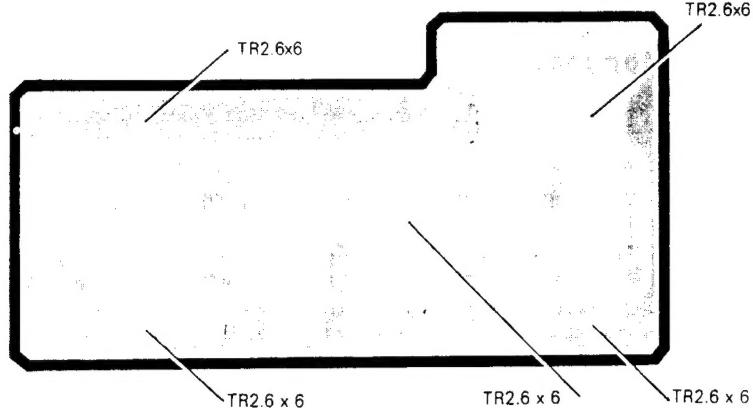
40-200831-OAA IR PRE AMPLIFIER



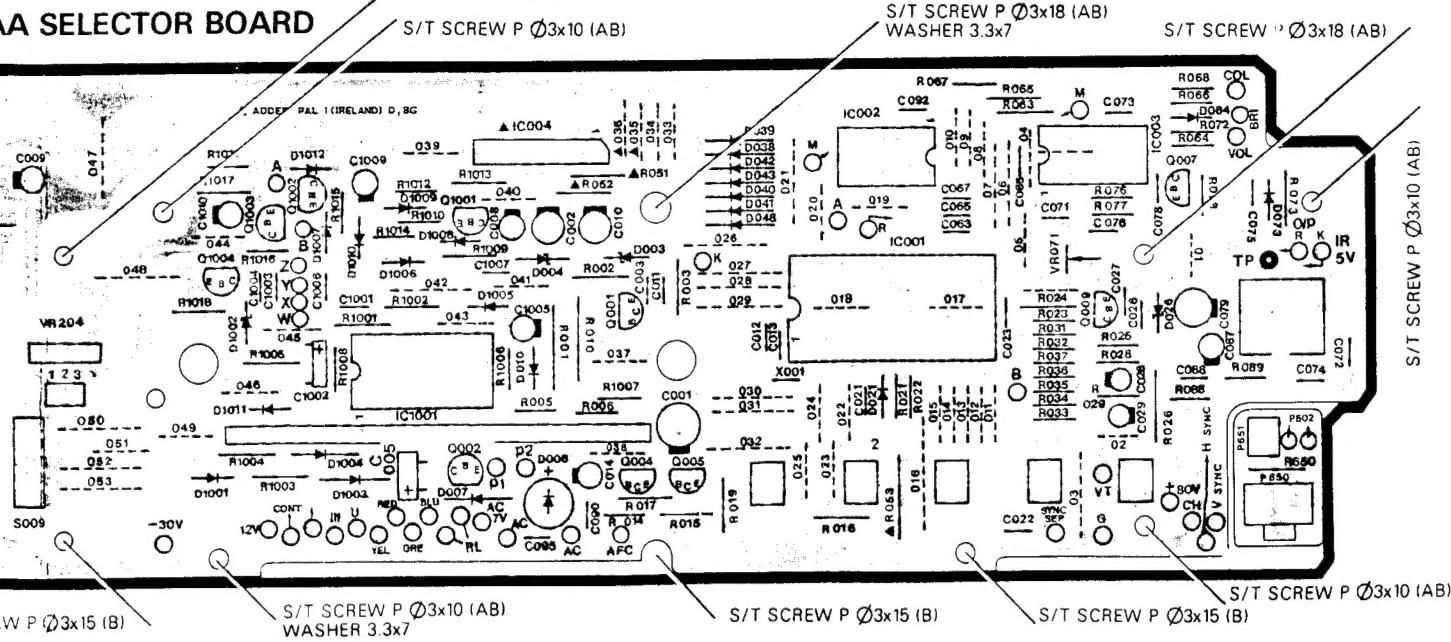
POWER BOARD



33-139713-OFZ CONTROL KEY



A SELECTOR BOARD



CHASSIS PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X - RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

Location No.	Part No.	Description	Quantity
08-20179-0003	08-20179-0-003	ASSEMBLY - MAIN BD. + CRT BD.	1.00
Z205	27-137171-1	45-137170-600 CERAMIC TRAP TPS 6.0 MHZ	1.00
Z103	27-10878-1	45-108780-400 CERAMIC FILTER 6MHz	1.00
Z101	27-11261-1	45-112610-300 SAW FILTER F1035	1.00
X223	27-10719-2	45-107190-100 CRYSTAL 4.43MHz	1.00
X215	33-13018-3	43-ZLT102-446 DELAY LINE - LUMINANCE(ELT446)	1.00
X213	33-13018-3	43-ZLT102-446 DELAY LINE - LUMINANCE(ELT446)	1.00
VR907	38-10732-1	20-107320-103 TRIMMER 10K OHM 0.3W B-TYPE	1.00
VR901	38-13059-1	20-130590-204 TRIMMER 200K OHM 0.3W B-TYPE	1.00
VR520	38-10729-1	20-107290-502 TRIMMER 5K OHM 0.3W B-TYPE	1.00
VR511	38-10723-1	20-107230-201 TRIMMER 200 OHM 0.3W B-TYPE	1.00
VR510	38-10723-1	20-107230-201 TRIMMER 200 OHM 0.3W B-TYPE	1.00
VR503	38-10724-1	20-107240-103 TRIMMER 10K OHM 0.3W B-TYPE	1.00
VR501	38-10724-1	20-107240-103 TRIMMER 10K OHM 0.3W B-TYPE	1.00
VR315	38-11239-1	20-112390-302 TRIMMER 3K OHM 0.3W B-TYPE	1.00
VR303	38-13063-1	20-130630-503 TRIMMER 50K OHM 0.3W B-TYPE	1.00
VR242	38-12574-1	20-125740-471 TRIMMER 470 OHM 0.3W B-TYPE	1.00
VR227	38-13064-1	20-130640-502 TRIMMER 5K OHM 0.3W B-TYPE	1.00
VR216	38-10729-1	20-107290-502 TRIMMER 5K OHM 0.3W B-TYPE	1.00
VR215	38-13065-1	20-130650-102 TRIMMER 1K OHM 0.3W B-TYPE	1.00
VR117	38-13064-1	20-130640-502 TRIMMER 5K OHM 0.3W B-TYPE	1.00
TU101	55-10702-6	07-000000E-T31 TUNER - UHF ET-31	1.00
TB02	51-12999-1	36-129991-000 TRANSFORMER - COVERTOR G-4B	1.00
T601	36-20174-0000	36-201740-000 TRANSFORMER - AUDIO OUTPUT	1.00
T414	51-14184-1	37-001541-380 TRANSFORMER - FLYBACK 14"	1.00
T406	51-10747-2	36-107472-000 TRANSFORMER - SIDE DFC (EI-25)	1.00
T405	51-10748-1	36-107481-000 HORIZ. DRIVE TRANSFORMER	1.00
T232	51-13099-1	38-130990-000 COIL - BURST PHASE ADJUST	1.00
T217	51-13099-1	38-130990-000 COIL - BURST PHASE ADJUST	1.00
T140	51-10750-1	38-107500-000 COIL - S.I.F. DETECTOR	1.00
T131	51-10744-1	38-107440-000 COIL - P.I.F. DETECTOR	1.00
T127	51-10744-1	38-107440-000 COIL - P.I.F. DETECTOR	1.00
T114	51-10743-1	38-107430-000 COIL - P.S.F. MATCHING	1.00
S501	73-10811-2	47-1081112-000 SOCKET - CRT (12P) CS623	1.00
RT801	36-10877-2	22-C02863-602 POSISTOR PTH451 C02 BG360N	1.00
R930	36-CD103-J	18-C00103-JD1 RES. CARBON FILM 10K OHM 1/4W	1.00
R918	36-CD821-J	18-C00821-JD1 RES. CARBON FILM 820 OHM 1/4W	1.00
R917	36-CD242-J	18-C00242-JD1 RES. CARBON FILM 2.4K OHM 1/4W	1.00
R916	36-CD103-J	18-C00103-JD1 RES. CARBON FILM 10K OHM 1/4W	1.00
R915	36-CD302-J	18-C00302-JD1 RES. CARBON FILM 3K OHM 1/4W	1.00
R914	36-CD681-J	18-C00681-JD1 RES. CARBON FILM 680 OHM 1/4W	1.00
R913	36-CD544-J	18-C00544-JD1 RES. CARBON FILM 560K OHM 1/4W	1.00
R912	36-CD106-J	18-C00106-JD1 RES. CARBON FILM 10M OHM 1/4W	1.00
R911	36-CD362-J	18-C00362-JD1 RES. CARBON FILM 3.6K OHM 1/4W	1.00
R910	36-CE153-J	18-C00153-JD1 RES. METAL OXIDE 15K OHM 1/2W	1.00
R907	36-CD154-J	18-C00154-JD1 RES. CARBON FILM 150K OHM 1/4W	1.00
R906	36-CD363-J	18-C00363-JD1 RES. CARBON FILM 36M OHM 1/4W	1.00
R905	36-CD362-J	18-C00362-JD1 RES. CARBON FILM 3.6K OHM 1/4W	1.00
R904	36-CD225-J	18-C00225-JD1 RES. CARBON FILM 2.2M OHM 1/4W	1.00
R903	36-CD393-J	18-C00393-JD1 RES. CARBON FILM 39K OHM 1/4W	1.00
R902	36-CD333-J	18-C00333-JD1 RES. CARBON FILM 33K OHM 1/4W	1.00
R901	36-CD244-J	18-C00244-JD1 RES. CARBON FILM 240K OHM 1/4W	1.00
R816	36-FF300-J	18-FF0300-30JG1 RES. METAL OXIDE 30 OHM 1W	1.00
R815	36-FE301-J	18-FE0301-JB1 RES. METAL OXIDE 300 OHM 1/2W	1.00
R814	36-FE759-J	18-FE0759-JB1 RES. METAL OXIDE 7.5 OHM 1/2W	1.00
R812	36-BE472-K	18-BE0472-KB1 RES. CARBON COMPOSITION	1.00
R803	36-CE104-J	18-CE0104-JB1 RES. CARBON FILM 100K OHM 1/2W	1.00
R802	36-CE104-J	18-CE0104-JB1 RES. CARBON FILM 100K OHM 1/2W	1.00
RB01	36-GL629-K	18-GL0629-KB1 RES. CEMENT 6.2 OHM 10W +/-10%	1.00
R611	36-DE109-J	18-DE0109-JB1 RES. METAL FILM 1 OHM 1/2W	1.00
R610	36-CD390-J	18-C00390-JD1 RES. CARBON FILM 39 OHM 1/4W	1.00
R608	36-CD561-J	18-C00561-JD1 RES. CARBON FILM 560 OHM 1/4W	1.00
R605	36-CD182-J	18-C00182-JD1 RES. CARBON FILM 1.8K OHM 1/4W	1.00
R604	36-CD183-J	18-C00183-JD1 RES. CARBON FILM 18K OHM 1/4W	1.00
R603	36-CD242-J	18-C00242-JD1 RES. CARBON FILM 2.4K OHM 1/4W	1.00
R601	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2.7K OHM 1/4W	1.00
R524	36-CD332-J	18-C00332-JD1 RES. CARBON FILM 3.3K OHM 1/4W	1.00
R523	36-CD332-J	18-C00332-JD1 RES. CARBON FILM 3.3K OHM 1/4W	1.00
R522	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2.7K OHM 1/4W	1.00
R521	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2.7K OHM 1/4W	1.00
R512	36-BE472-K	18-BE0472-KB1 RES. CARBON COMPOSITION	1.00
R511	36-CD151-J	18-C00151-JD1 RES. CARBON FILM 150 OHM 1/4W	1.00
R510	36-CD201-J	18-C00201-JD1 RES. CARBON FILM 200 OHM 1/4W	1.00
R507	36-BE472-K	18-BE0472-KB1 RES. CARBON COMPOSITION	1.00
R506	36-CD121-J	18-C00121-JD1 RES. CARBON FILM 120 OHM 1/4W	1.00
R505	36-CD151-J	18-C00151-JD1 RES. CARBON FILM 150 OHM 1/4W	1.00
R504	36-BE472-K	18-BE0472-KB1 RES. CARBON COMPOSITION	1.00
R503	36-FG153-J	18-FG0153-JH1 RES. METAL OXIDE 15K OHM 2W	1.00
R502	36-FG153-J	18-FG0153-JH1 RES. METAL OXIDE 15K OHM 2W	1.00
R501	36-FG153-J	18-FG0153-JH1 RES. METAL OXIDE 15K OHM 2W	1.00
R426	18-FE0681-1JB1	18-FE0681-1JB1 RES. METAL OXIDE 680 OHM 1W	1.00
R425	36-CD224-J	18-C00224-JD1 RES. CARBON FILM 220K OHM 1/4W	1.00
R424	36-DF109-J	18-DF0109-JB1 RES. METAL FILM 1 OHM 1W +/-5%	1.00
R423	36-DE109-J	18-DE0109-JB1 RES. METAL FILM 1 OHM 1W/2W	1.00
R422	36-EE100-J	18-EE0100-1JG1 RES. FUSIBLE 10 OHM 1/2W +/-5%	1.00
R421	36-CD103-J	18-C00103-JD1 RES. CARBON FILM 10K OHM 1/4W	1.00
R420	36-CD103-J	18-C00103-JD1 RES. CARBON FILM 10K OHM 1/4W	1.00
R418	36-EEF339-J	18-EEF0339-JG1 RES. FUSIBLE 3.3 OHM 1W +/-5%	1.00
R412	36-CD202-J	18-C00202-JD1 RES. CARBON FILM 2K OHM 1/4W	1.00
R411	36-CE102-J	18-CE0102-JB1 RES. CARBON FILM 1K OHM 1/2W	1.00
R407	36-CD473-J	18-C00473-JD1 RES. CARBON FILM 47K OHM 1/4W	1.00
R406	36-FF681-J	18-FF0681-JG1 RES. METAL OXIDE 680 OHM 1W	1.00
R405	36-FE181-J	18-FE0181-JB1 RES. METAL OXIDE 180 OHM 1/2W	1.00
R404	36-CD330-J	18-C00330-JD1 RES. CARBON FILM 33 OHM 1/4W	1.00
R403	36-CD182-J	18-C00182-JD1 RES. CARBON FILM 1.8K OHM 1/4W	1.00
R402	36-FH682-J	18-FH0682-JJ1 RES. METAL OXIDE 6.8K OHM 3W	1.00

Location No.	Part No.	Description
R401	36-FH242-J	18-FH0242-JI1 RES. METAL OXIDE 2
R325	36-FE122-J	18-FE0122-JB1 RES. METAL OXIDE 1
R320	36-FE681-J	18-FE0681-JG1 RES. METAL OXIDE 6
R319	36-DE229-J	18-DE0229-JB1 RES. METAL FILM 2
R315	36-C0331-J	18-C00331-JD1 RES. CARBON FILM 3
R313	36-FE821-J	18-FE0821-JB1 RES. METAL OXIDE 8
R312	36-FG100-J	18-FG0100-JH1 RES. METAL OXIDE 1
R311	36-CD103-J	18-C00103-JD1 RES. CARBON FILM 1
R310	36-FE821-J	18-FE0821-JB1 RES. METAL OXIDE 8
R309	36-CD220-J	18-C00220-JD1 RES. CARBON FILM 2
R308	36-C0102-J	18-C00102-JD1 RES. CARBON FILM 1
R307	36-DF279-J	18-DF0279-JB1 RES. METAL FILM 2
R306	36-C0473-J	18-C00473-JD1 RES. CARBON FILM 4
R305	36-C0683-J	18-C00683-JD1 RES. CARBON FILM 6
R304	36-CD392-J	18-C00392-JD1 RES. CARBON FILM 3
R303	36-C0823-J	18-C00823-JD1 RES. CARBON FILM 8
R302	36-CD273-J	18-C00273-JD1 RES. CARBON FILM 2
R301	36-C0331-J	18-C00331-JD1 RES. CARBON FILM 3
R275	36-C0823-J	18-C00823-JD1 RES. CARBON FILM 8
R274	36-C0184-J	18-C00184-JD1 RES. CARBON FILM 1
R272	36-C0563-J	18-C00563-JD1 RES. CARBON FILM 5
R271	36-C0473-J	18-C00473-JD1 RES. CARBON FILM 4
R263	36-C0393-J	18-C00393-JD1 RES. CARBON FILM 3
R262	36-C0822-J	18-C00822-JD1 RES. CARBON FILM 8
R261	36-C0154-J	18-C00154-JD1 RES. CARBON FILM 1
R260	36-CD242-J	18-C00242-JD1 RES. CARBON FILM 2
R258	36-CD680-J	18-C00680-JD1 RES. CARBON FILM 6
R257	36-C0821-J	18-C00821-JD1 RES. CARBON FILM 8
R256	36-CD202-J	18-C00202-JD1 RES. CARBON FILM 2
R255	36-C0103-J	18-C00103-JD1 RES. CARBON FILM 1
R254	36-C0331-J	18-C00331-JD1 RES. CARBON FILM 3
R253	36-C0101-J	18-C00101-JD1 RES. CARBON FILM 1
R252	36-C0563-J	18-C00563-JD1 RES. CARBON FILM 5
R251	36-CE102-J	18-C00102-JB1 RES. CARBON FILM 1
R250	36-C0823-J	18-C00823-JD1 RES. CARBON FILM 8
R247	36-C0153-J	18-C00153-JD1 RES. CARBON FILM 1
R246	36-C0563-J	18-C00563-JD1 RES. CARBON FILM 5
R245	36-FF221-J	18-FF0221-JG1 RES. METAL OXIDE 2
R241	36-CD474-J	18-C00474-JD1 RES. CARBON FILM 4
R240	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2
R237	36-C0561-J	18-C00561-JD1 RES. CARBON FILM 5
R236	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2
R235	36-C0561-J	18-C00561-JD1 RES. CARBON FILM 5
R234	36-CD272-J	18-C00272-JD1 RES. CARBON FILM 2
R233	36-C0561-J	18-C00561-JD1 RES. CARBON FILM 5
R232	36-C0471-J	18-C00471-JD1 RES. CARBON FILM 4
R231	36-C0273-J	18-C00273-JD1 RES. CARBON FILM 2
R230	36-C0122-J	18-C00122-JD1 RES. CARBON FILM 1
R227	36-C0273-J	18-C00273-JD1 RES. CARBON FILM 2
R226	36-C0823-J	18-C00823-JD1 RES. CARBON FILM 8
R225	36-CD391-J	18-C00391-JD1 RES. CARBON FILM 3
R224	36-C0511-J	18-C00511-JD1 RES. CARBON FILM 5
R223	36-CD201-J	18-C00201-JD1 RES. CARBON FILM 2
R222	36-C0821-J	18-C00821-JD1 RES. CARBON FILM 8
R216	36-C0152-J	18-C00152-JD1 RES. CARBON FILM 1
R215	36-C0103-J	18-C00103-JD1 RES. CARBON FILM 1
R214	36-CD162-J	18-C00162-JD1 RES. CARBON FILM 1
R213	36-CD363-J	18-C00363-JD1 RES. CARBON FILM 3
R212	36-C0334-J	18-C00334-JD1 RES. CARBON FILM 3
R211	36-C0103-J	18-C00103-JD1 RES. CARBON FILM 1
R210	36-CD182-J	18-C00182-JD1 RES. CARBON FILM 1
R207	36-CD182-J	18-C00182-JD1 RES. CARBON FILM 1
R206	36-C0151-J	18-C00151-JD1 RES. CARBON FILM 1
R205	36-C0122-J	18-C00122-JD1 RES. CARBON FILM 1
R203	36-C0331-J	18-C00331-JD1 RES. CARBON FILM 3
R202	36-C0152-J	18-C00152-JD1 RES. CARBON FILM 1
R140	36-CD123-J	18-C00123-JD1 RES. CARBON FILM 1
R134	36-C0104-J	18-C00104-JD1 RES. CARBON FILM 1
R131	36-C0222-J	18-C00222-JD1 RES. CARBON FILM 2
R127	36-C0392-J	18-C00392-JD1 RES. CARBON FILM 3
R121	36-C0223-J	18-C00223-JD1 RES. CARBON FILM 2
R118	36-C0822-J	18-C00822-JD1 RES. CARBON FILM 8
R117	36-C0561-J	18-C00561-JD1 RES. CARBON FILM 5
R116	36-C0152-J	18-C00152-JD1 RES. CARBON FILM 1
R114	36-CD182-J	18-C00182-JD1 RES. CARBON FILM 1
R113	36-C0824-J	18-C00824-JD1 RES. CARBON FILM 8
R112	36-C0302-J	18-C00302-JD1 RES. CARBON FILM 5
R110	36-C0102-J	18-C00102-JD1 RES. CARBON FILM 1

CHASSIS PARTS LIST

G THIS CHASSIS, READ THE "X - RAY RADIATION PRECAUTION",
"PRODUCT SAFETY NOTICE".

be used when ordering parts, in order to assist in processing, be sure to
specification.

	Quantity
RT BD.	1.00
R401	36-FH242-J
R325	36-FE122-J
R320	36-FE481-J
R319	36-DE229-J
R315	36-CD0331-J
R313	36-FE821-J
R312	36-FG0100-J
R311	36-CD0103-J
R310	36-FE821-J
R309	36-CD220-J
R308	36-CD0102-J
R307	36-DF279-J
R306	36-CD473-J
R305	36-CD683-J
R304	36-CD392-J
R303	36-CB0823-J
R302	36-CD273-J
R301	36-CD0331-J
R273	36-CB0823-J
R274	36-CD184-J
R272	36-CB563-J
R271	36-CD473-J
R263	36-CD0393-J
R262	36-CD0822-J
R261	36-CD154-J
R260	36-CD242-J
R258	36-CD680-J
R257	36-CB21-J
R256	36-CD202-J
R255	36-CD0103-J
R254	36-CD331-J
R253	36-CD101-J
R252	36-CB563-J
R251	36-CE102-J
R250	36-CB0823-J
R247	36-CD153-J
R246	36-CB563-J
R245	36-FF221-J
R241	36-CD474-J
R240	36-CD272-J
R237	36-CB561-J
R236	36-CD272-J
R235	36-CB561-J
R234	36-CD272-J
R233	36-CB561-J
R232	36-CD471-J
R231	36-CD273-J
R230	36-CD122-J
R227	36-CD273-J
R226	36-CB0823-J
R225	36-CD391-J
R224	36-CB511-J
R223	36-CD201-J
R222	36-CB0821-J
R216	36-CD152-J
R215	36-CD0103-J
R214	36-CD162-J
R213	36-CD0363-J
R212	36-CB0334-J
R211	36-CD0103-J
R210	36-CB182-J
R207	36-CD182-J
R206	36-CD151-J
R205	36-CD122-J
R203	36-CD0331-J
R202	36-CB0152-J
R140	36-CD0123-J
R134	36-CB0104-J
R131	36-CB0222-J
R127	36-CD392-J
R121	36-CB0223-J
R118	36-CB0822-J
R117	36-CB561-J
R116	36-CD152-J
R114	36-CD182-J
R113	36-CB0824-J
R112	36-CD302-J
R110	36-CB0102-J
R109	36-CD164-J
R108	36-CB0272-J
R107	36-CD221-J
R105	36-CD270-J
R104	36-CD471-J
R103	36-CD562-J
R102	36-CD0102-J
R101	36-CD0101-J
R004	14-130131
R008	14-13069-C
R002	14-13068-C
R001	14-13066-C
R003	14-12704-0
R002	14-12704-0
R001	14-12704-0
R005	14-12778-0
R004	14-12704-0
R0310	14-10759-0
R0302	14-10758-0
R0301	14-10760-0

Location No.	Part No.	Description
O253	14-10757-0	TRANSISTOR 1SA
O101	14-10754-0	TRANSISTOR 1SC
P902	74-10964-6	POLE PIN BASE
P901	74-12866-6	POLE PIN BASE
P802	74-10962-2	POLE PIN BASE
P801	74-11376-6	POLE PIN BASE
P602	74-12866-6	POLE PIN BASE
P402	74-12866-6	POLE PIN BASE
P401	74-12876-6	POLE PIN BASE
P270	46-12210W-003C	PIN BASE - 3 P
P201	74-10967-2	SINGLE PIN BASI
P102	74-10960-6	PIN BASE 4 POLE
P101A	74-12866-6	POLE PIN BASE
L811	51-13001-1	COIL - CHOKE 6
L807	51-12000-1	COIL - CHOKE 6
L501	51-10709-1	COIL - PL-33 05
L418	51-10739-1	COIL - CHOKE 01
L414	51-13973-1	FERRITE BEAD BF
L413	51-13973-0	FERRITE BEAD BF
L412	51-14012-1	COIL - CHOKE 01
L410	51-10738-1	COIL - PL-1 05F
L406	51-13058-1	COIL - LINEAR
L403	51-10738-0	COIL - PL-1 05F
L224	51-11157-1	COIL - PL-220
L215	51-10710-1	COIL - PL-B-2
L210	51-10709-1	COIL - PL-33 05
L205	51-10712-1	COIL - PL-15 05
L133	51-10709-1	COIL - PL-33 05
L124	51-10733-1	COIL - CHOKE 01
L104	51-10735-1	COIL - MATCHING
IC201	14-13011-1	I.C. TA7698AF
IC101	14-13010-1	I.C. TA7681AP
D904	14-10718-1	DIODE - SWITCH
DB16	14-12996-1	DIODE RH 1 (FAE)
DB14	14-12996-1	DIODE RH 1 (FAE)
DB13	14-12998-1	DIODE SR-2M (AV)
DB11	14-13014-1	DIODE RG 2 (FAE)
DB10	14-10625-1	DIODE BA 157 (F)
DB01	14-12995-1	DIODE RB-156
DB05	14-10273-1	DIODE IN4148-A21
D430	10-85C30V-0D21	DIODE - ZENER 3
D426	14-10625-1	DIODE BA 157 (F)
D420	14-10764-1	DIODE S 5295J (
D418	14-10764-2	DIODE S 5295G (F)
D415	14-10764-2	DIODE S 5295E (F)
D411	14-10766-1	DIODE IS 1887 (
D402	14-10718-1	DIODE IS 1887 (
D316	14-14011-1	DIODE - SWITCH
D315	14-10273-1	DIODE IN4002 (R)
D313	14-10765-1	DIODE IS 2775 (
D312	14-10765-1	DIODE IS 2775 (
D310	14-10766-1	DIODE IS 1887 (
D302	14-10718-1	DIODE IS 1555-A21
D301	14-10718-1	DIODE - SWITCH
D255	14-10718-1	DIODE - SWITCH
D254	14-10718-1	DIODE - SWITCH
D253	14-10270-1	DIODE 01N60P-A21
D251	14-10718-1	DIODE - SWITCH
D250	14-11406-1	DIODE - ZENER 1
D243	14-10718-1	DIODE - SWITCH
D241	14-10718-1	DIODE - SWITCH
D216	14-10718-1	DIODE - SWITCH
C930	42-BF478-Y	CAP. ELECTROLYT
C916	46-PF152-J	CAP. POLYESTER
C915	46-PF333-J	CAP. POLYESTER
C914	46-PF153-J	CAP. POLYESTER
C913	42-BF109-Y	CAP. ELECTROLYT
C912	42-BF478-Y	CAP. ELECTROLYT
C911	42-BF109-Y	CAP. ELECTROLYT
C910	42-BF109-Y	CAP. ELECTROLYT
C907	46-KF302-J	CAP. POLYESTER
C906	46-PF562-J	CAP. POLYESTER
C905	44-AF103-Z	CAP. CERAMIC 01
C904	44-AF103-Z	CAP. CERAMIC 01
C903	44-AF152-Z	CAP. CERAMIC 15
C902	46-FP224-J	CAP. POLYESTER
C901	49-BE229-K	CAP. TANTALUM 2
CB20	46-MM104-K	CAP. METALLIZED
CB16	44-AP102-K	CAP. CERAMIC 10
CB15	42-BH100-Y	CAP. ELECTROLYT
CB14	44-AL681-K	CAP. CERAMIC 68
CB13	42-BJ470-Y	CAP. ELECTROLYT
CB12	46-AM0102-K	CAP. CERAMIC 10
CB11	44-AP102-K	CAP. CERAMIC 10
CB10	42-BF100-Y	CAP. ELECTROLYT
CB07	44-AL102-K	CAP. CERAMIC (DI)
CB06	42-BM121-M	CAP. ELECTROLYT
CB05	44-AQ472-Z	CAP. CERAMIC (DI)
CB04	44-AQ472-Z	CAP. CERAMIC (DI)
CB03	44-AQ472-Z	CAP. CERAMIC (DI)
CB02	44-AQ472-Z	CAP. CERAMIC (DI)
CB01	46-MQ223-M	CAP. METALLIZED
CB08	42-BC102-Y	CAP. ELECTROLYT
CB04	46-PF562-J	CAP. POLYESTER
CB02	42-BD471-Y	CAP. ELECTROLYT
C601	42-BF229-Y	CAP. ELECTROLYT
CS12	44-AF102-K	CAP. CERAMIC 10
CS11	44-AF221-J	CAP. CERAMIC 220
CS10	44-AF102-K	CAP. CERAMIC 10
CS07	44-AF221-J	CAP. CERAMIC 220
CS06	44-AF221-J	CAP. CERAMIC 220
CS05	44-AF102-K	CAP. CERAMIC 100
CS04	44-AN331-M	CAP. CERAMIC 330
CS03	44-AF181-J	CAP. CERAMIC 180
CS02	44-AF181-J	CAP. CERAMIC 180
CS01	44-AF181-J	CAP. CERAMIC 180
C426	42-BF109-Y	CAP. ELECTROLYT
C424	46-MK124-K	CAP. METALLIZED
C423	46-RG563-J	CAP. POLYPROPYLE
C420	44-AL681-K	CAP. CERAMIC 680
C419	44-AF221-K	CAP. CERAMIC 220
C418	42-BC222-Y	CAP. ELECTROLYT
C417	42-BG101-Y	CAP. ELECTROLYT
C416	42-BL100-Y	CAP. ELECTROLYT
C415	44-AL221-K	CAP. CERAMIC 220
C413	46-RP762-J	CAP. POLYPROPYLE
C412	42-BF478-Y	CAP. ELECTROLYT
C411	46-RL394-J	CAP. POLYPROPYLE
C406	44-AF222-K	CAP. CERAMIC 220

Location No.	Part No.	Description	Quantity
0253	14-10757-0	11-A562TM-001 TRANSISTOR 2SA 562TM-0	1.00
0101	14-10754-0	11-SC388A-TM1 TRANSISTOR 2SC 388 ATM	1.00
P902	74-10964-6	46-10964W-06C POLE PIN BASE*2 WF9006	1.00
F901	74-12866-6	46-12866W-02C POLE PIN BASE*2 WF9002	1.00
P802	74-10962-2	46-10962W-02B POLE PIN BASE*2 RTB-1.5-2	1.00
P801	74-11376-6	46-11376W-03C POLE PIN BASE*3 WF3003	1.00
P802	74-12866-6	46-12866W-02C POLE PIN BASE*2 WF9002	1.00
P402	74-12866-6	46-12866W-02C POLE PIN BASE*2 WF9002	1.00
P401	74-12876-6	46-12876W-06C POLE PIN BASE*2 RTB-1.5-6	1.00
P270	46-12210-W03C	46-12210W-03C PIN BASE - 3 POLE WF9003	1.00
P201	74-10967-2	46-10967W-01B SINGLE PIN BASE RT-01N-2.3A	1.00
P102	74-10960-6	46-10960W-04C PIN BASE 4 POLE WF9004	1.00
P101A	74-12866-6	46-12866W-02C POLE PIN BASE*2 WF9002	1.00
L811	51-13001-1	36-130010-000 COIL - CHOKE 6.5MM (1.0UH)	1.00
L807	51-12000-1	36-120000-000 COIL - CHOKE 6.5MM (1.0UH)	1.00
L501	51-10709-1	36-107090-000 COIL - PL-33 05MM (33UH)	1.00
L418	51-10739-1	36-107390-000 COIL - CHOKE 010MM (100UH)	1.00
L414	51-13973-1	35-139730-000 FERRITE BEAD BF60	1.00
L413	51-13973-1	35-139730-000 FERRITE BEAD BF60	1.00
L412	51-14012-1	36-140121-000 COIL - CHOKE (0.6 UH)	1.00
L410	51-10738-1	36-107380-000 COIL - PL-1 05MM (1.0UH)	1.00
L406	51-13058-1	36-130580-000 COIL - LINEARITY 010MM (39UH)	1.00
L403	51-10738-1	36-107380-000 COIL - PL-1 05MM (1.0UH)	1.00
L224	51-11157-1	36-111570-000 COIL - PL-220 05MM (220UH)	1.00
L215	51-10710-1	36-107100-000 COIL - PL-8.2 05MM (8.2UH)	1.00
L210	51-10709-1	36-107090-000 COIL - PL-33 05MM (33UH)	1.00
L205	51-10712-1	36-107120-000 COIL - PL-15 05MM (15UH)	1.00
L133	51-10709-1	36-107090-000 COIL - PL-33 05MM (33UH)	1.00
L124	51-10733-1	36-107330-000 COIL - PL-5.6 DIA 5MM (5.6UH)	1.00
L104	51-10735-1	36-107350-000 COIL - CHOKE (0.9UH)	1.00
L101	51-10734-1	36-107340-000 COIL - MATCHING COIL	1.00
IC201	14-13011-1	13-TA7698-APP I.C. TA7698AP	1.00
IC101	14-13010-1	13-TA7681-APP I.C. TA7681AP	1.00
D904	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
DB16	14-12996-1	10-000RHR1-E21 DIODE RH 1 (FAST RECOVERY)	1.00
DB14	14-12996-1	10-000RHR1-E21 DIODE RH 1 (FAST RECOVERY)	1.00
DB13	14-12998-1	10-000SR2M-D21 DIODE SR-2M (avalanche)	1.00
DB11	14-13014-1	10-000RG2-E21 DIODE RG 2 (FAST RECOVERY)	1.00
DB10	14-10625-1	10-0BA157-E21 DIODE BA 157 (FAST RECOVERY)	1.00
DB01	14-12995-1	10-0R8156-E21 DIODE RB-156	1.00
DB05	14-10273-1	10-1N4148-A21 DIODE IN4148 (SWITCHING)	1.00
D430	10-85C30V-VD21	10-85C30V-021 DIODE - ZENER 30V 5% 1.3W	1.00
D426	14-10625-1	10-0BA157-E21 DIODE BA 157 (FAST RECOVERY)	1.00
D420	14-10764-1	10-S5295J-E21 DIODE S 5295J (FAST RECOVERY)	1.00
D418	14-10764-2	10-S5295G-E21 DIODE S5295G (FAST RECOVERY)	1.00
D415	14-10764-2	10-S5295GK-E21 DIODE S5295GK (FAST RECOVERY)	1.00
D411	14-10766-1	10-IS1887-E21 DIODE IS 1887 (RECTIFIER)	1.00
D402	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D316	14-14011-1	10-1N4002-E21 DIODE IN4002 (RECTIFIER)	1.00
D315	14-10273-1	10-1N4148-A21 DIODE IN4148 (SWITCHING)	1.00
D313	14-10765-1	10-1S2775-E21 DIODE IS 2775 (FAST RECOVERY)	1.00
D312	14-10765-1	10-1S2775-E21 DIODE IS 2775 (FAST RECOVERY)	1.00
D310	14-10766-1	10-IS1887-E21 DIODE IS 1887 (RECTIFIER)	1.00
D302	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D301	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D255	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D254	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D253	14-10270-1	10-01N60P-A21 DIODE - GERMANIUM IN 60P	1.00
D251	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D250	14-11406-1	10-83C12V-D21 DIODE - ZENER 12V 5% 1/2W	1.00
D243	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D241	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
D216	14-10718-1	10-1S1555-A21 DIODE - SWITCHING IS 1555	1.00
C930	42-BF478-Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1.00
C916	46-PF152-Z	27-PBD152-J01 CAP. POLYESTER 0.0015 UF 50V	1.00
C915	46-PF333-J	27-PBD333-J01 CAP. POLYESTER 0.033 UF 50V	1.00
C914	46-PF153-J	27-PBD153-J01 CAP. POLYESTER 0.015 MFD 50V	1.00
C913	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
C912	42-BF478-Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1.00
C911	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
C910	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
C907	46-KF302-J	27-KBD302-J01 CAP. POLYESTER-POLYPROPYLENE	1.00
C906	46-PF562-J	27-PBD562-J01 CAP. POLYESTER 0.0056 UF 50V	1.00
C905	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C904	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C903	44-AF152-K	26-AB0152-KB1 CAP. CERAMIC 1500 PF 50V	1.00
C902	46-PF224-J	27-PBD224-J01 CAP. POLYESTER 0.22 UF 50V	1.00
C901	49-BE229-K	25-BE0229-K31 CAP. TANTALUM 2.2 MFD 35V	1.00
C820	46-MM104-K	27-MHD104-K01 CAP. METALLIZED POLYESTER	1.00
S816	44-AP102-K	26-AM0102-KB1 CAP. CERAMIC 1000 PF 2KV	1.00
S815	44-AP102-K	26-AM0102-KB1 CAP. CERAMIC 1000 PF 2KV	1.00
C814	44-AL681-K	26-A10681-KB1 CAP. CERAMIC 680 PF 500V	1.00
B13	42-BF470-Y	25-BJ0470-U11 CAP. ELECTROLYTIC 47 MFD 16V	1.00
B12	44-AP102-K	26-AM0102-KB1 CAP. CERAMIC 1000 PF 2KV	1.00
S11	44-AP102-K	26-AM0102-KB1 CAP. CERAMIC 1000 PF 2KV	1.00
S10	42-BF100-Y	25-BF0100-U11 CAP. ELECTROLYTIC 10 MFD 50V	1.00
S07	44-AL102-K	26-A10102-KB1 CAP. CERAMIC (DISC TYPE)	1.00
S06	42-BM121-M	25-BM0121-M11 CAP. ELECTROLYTIC 120 UF 400V	1.00
S05	44-AQ472-Z	26-AQ0472-ZF1 CAP. CERAMIC (DISC TYPE)	1.00
B04	44-AQ472-Z	26-AQ0472-ZF1 CAP. CERAMIC (DISC TYPE)	1.00
B03	44-AQ472-Z	26-AQ0472-ZF1 CAP. CERAMIC (DISC TYPE)	1.00
B02	44-AQ472-Z	26-AQ0472-ZF1 CAP. CERAMIC (DISC TYPE)	1.00
S01	46-M0223-M	27-MGA223-M01 CAP. METALLIZED POLYESTER	1.00
S08	42-BC102-Y	25-BC0102-U11 CAP. ELECTROLYTIC 1000 MFD 16V	1.00
S04	46-PF562-J	27-PBD562-J01 CAP. POLYESTER 0.0056 UF 50V	1.00
S02	42-BD471-Y	25-BD0471-U11 CAP. ELECTROLYTIC 470 MFD 25V	1.00
S01	42-BF229-Y	25-BF0229-U11 CAP. ELECTROLYTIC 2.2 MFD 50V	1.00
S12	44-AF211-J	26-AB0211-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
S10	44-AF102-K	26-AB0102-KB1 CAP. CERAMIC 1000 PF 50V	1.00
S07	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
S06	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
S05	44-AF102-K	26-AB0102-KB1 CAP. CERAMIC 1000 PF 50V	1.00
S04	44-AN331-M	26-AK0331-MB1 CAP. CERAMIC 330 PF 1000V	1.00
S03	44-AF181-J	26-AB0181-JZ1 CAP. CERAMIC 180 PF 50V +/-5%	1.00
S02	44-AF181-J	26-AB0181-JZ1 CAP. CERAMIC 180 PF 50V +/-5%	1.00
S01	44-AF181-J	26-AB0181-JZ1 CAP. CERAMIC 180 PF 50V +/-5%	1.00
S26	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
A24	46-MK124-K	27-RKD124-K01 CAP. METALLIZED POLYESTER	1.00
A23	46-RL563-J	27-RGD563-J01 CAP. POLYPROPYLENE 0.056 UF	1.00
A20	44-AL681-K	26-A10681-KB1 CAP. CERAMIC 680 PF 500V	1.00
A19	44-AL221-K	26-A10221-KB1 CAP. CERAMIC 220PF 500V	1.00
A18	42-BC222-Y	25-BC0222-U11 CAP. ELECTROLYTIC 2200 MFD 16V	1.00
A17	42-BG101-Y	25-BG0101-U11 CAP. ELECTROLYTIC 1000 MFD 63V	1.00
A16	42-BL100-Y	25-BL0100-U11 CAP. ELECTROLYTIC 10 MFD 250V	1.00
A15	44-AL221-K	26-A10221-KB1 CAP. CERAMIC 220PF 500V	1.00
A13	46-RP762-J	27-RL0762-J01 CAP. POLYPROPYLENE 0.0076 UF	1.00
A12	42-BF478-Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1.00
A11	46-RL394-J	27-RGD394-J01 CAP. POLYPROPYLENE 0.39 UF	1.00
A06	44-AF222-K	26-AB0222-KB1 CAP. CERAMIC 2200 PF 50V	1.00

Location No.	Part No.	Description	Quantity
C405	44-AF221-K	26-AM0221-KB1 CAP. CERAMIC 220 PF 2KV	1
C404	44-AL681-K	26-A10681-KB1 CAP. CERAMIC 680 PF 500V	1
C403	42-BF100-Y	25-BF0100-U11 CAP. ELECTROLYTIC 10 MFD 50V	1
C402	42-BF478-Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1
C401	44-AL103-K	26-A10103-KB1 CAP. CERAMIC (DISC TYPE)	1
C326	42-FC240-K	25-FCD240-K11 CAP. ELECTROLYTIC 24 UF 16V	1
C312	46-RL333-J	27-RGD333-J01 CAP. POLYPROPYLENE 0.033 UF	1
C311	42-BF221-Y	25-BF0221-U11 CAP. ELECTROLYTIC 220 MFD 50V	1
C310	42-BJ479-Y	25-BJ0479-U11 CAP. ELECTROLYTIC 4.7 MFD 160V	1
C307	49-BE229-K	25-BE0229-K31 CAP. TANTALUM 2.2 MFD 35V	1
C306	44-AL332-M	26-A10332-MB1 CAP. CERAMIC 3300 PF 500V	1
C302	42-BF100-Y	25-BF0100-U11 CAP. ELECTROLYTIC 10 MFD 50V	1
C301	44-AL221-K	26-A10221-KB1 CAP. CERAMIC 220PF 500V	1
C290	44-AF109-C	26-AB0109-CZ1 CAP. CERAMIC 1 PF 50V +/-0.25%	1
C272	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1
C271	42-BF479-Y	25-BF0479-U11 CAP. ELECTROLYTIC 1 UF 50V	1
C262	42-BF479-Y	25-BF0479-U11 CAP. ELECTROLYTIC 4.7 MFD 50V	1
C257	44-AF180-J	26-AB0180-JZ1 CAP. CERAMIC 18 PF 50V +/-5%	1
C253	44-AF561-K	26-AB0561-KZ1 CAP. CERAMIC (DISC TYPE)	1
C252	44-AM300-J	26-AB0300-JZ1 CAP. CERAMIC 30 PF 50V +/-5%	1
C251	44-AF301-K	26-AB0130-ZF1 CAP. CERAMIC 100 PF 50V	1
C250	44-AF301-K	26-AB0130-ZF1 CAP. CERAMIC 100 PF 50V	1
C249	42-BE220-Y	25-BE0220-U11 CAP. ELECTROLYTIC 22 MFD 35V	1
C248	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1
C247	42-BC101-Y	25-BC0101-U11 CAP. ELECTROLYTIC 1000 MFD 16V	1
C246	44-AP473-J	27-PBD0473-J01 CAP. POLYESTER 0.047 UF 50V	1
C245	44-AF150-J	26-AB0150-JZ1 CAP. CERAMIC 12 PF 50V +/-5%	1
C244	46-PF104-J	27-PBD104-J01 CAP. POLYESTER 0.1 UF 50V	1
C243	44-AF470-J	26-AB0470-JC1 CAP. CERAMIC 47 PF 50V +/-5%	1
C242	46-NF474-J	27-NBD474-J01 CAP. POLYESTER 0.47 UF 50V	1
C241	44-AF150-J	26-AB0150-JZ1 CAP. CERAMIC 15 PF 50V +/-5%	1
C240	44-AF209-C	26-AB0209-CZ1 CAP. CERAMIC 2 PF 50V +/-0.25	1
C239	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C238	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C237	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C236	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C235	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C234	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C233	44-AF102-Z	26-AB0102-ZF1 CAP. CERAMIC IN 50V +80-20%	1
C232	42-BC312-Y	25-BC0312-Y01 CAP. ELECTROLYTIC 47 MFD 16V	1
C231	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1
C230	44-AF209-C	26-AB0209-CZ1 CAP. CERAMIC 2 PF 50V +/-0.25	1
C229	46-NF474-J	27-NBD474-J01 CAP. POLYESTER 0.47 UF 50V	1
C228	44-AF150-J	26-AB0150-JZ1 CAP. CERAMIC 12 PF 50V +/-5%	1
C227	44-AF103-Z	26-AB0103-ZF1 CAP. CERAM	

Location No.	Part No.	Description	Quantity
C1007	44-AF473-Z	26-AB0473-ZF1 CAP. CERAMIC 0.047 UF 50V	1.00
C1006	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C1005	42-BC470-Y	25-BC0470-U11 CAP. ELECTROLYTIC 47 MFD 16V	1.00
C1004	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C1003	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C1002	42-BC332-U	25-BC0332-U11 CAP. ELECTROLYTIC 3300 UF 16V	1.00
C1001	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C095	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C092	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C091	42-BF109-Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
C090	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C088	44-AF330-J	26-AB0330-JZ1 CAP. CERAMIC 33 PF 50V +/-5%	1.00
C087	42-BF220-Y	25-BF0220-U11 CAP. ELECTROLYTIC 22 MFD 50V	1.00
C085	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C079	42-BF470-Y	25-BF0470-U11 CAP. ELECTROLYTIC 47 MFD 50V	1.00
C078	44-AF470-J	26-AB0470-JZ1 CAP. CERAMIC 47 PF 50V +/-5%	1.00
C076	44-AF330-J	26-AB0330-JZ1 CAP. CERAMIC 33 PF 50V +/-5%	1.00
C075	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
C074	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C073	44-AF222-K	26-AB0222-KB1 CAP. CERAMIC 2200 PF 50V	1.00
C072	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C071	44-AF151-J	26-AB0151-JC1 CAP. CERAMIC 150PF 50V	1.00
C067	44-AF101-J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
C065	44-AF101-J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
C063	44-AF101-J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
C029	49-BE228-K	25-BE0228-K31 CAP. TANTALUM 0.22UF +/-10%	1.00
C028	49-BE478-M	25-BE0478-M31 CAP. TANTALUM 0.47 UF 35V	1.00
C027	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
C026	44-AF203-Z	26-AB0203-ZF1 CAP. CERAMIC 200 30V 50V +/-20%	1.00
C023	44-AF220-J	26-AB0220-JZ1 CAP. CERAMIC 22 PF 50V +/-5%	1.00
C022	44-AF680-J	26-AB0680-JZ1 CAP. CERAMIC 68 PF 50V +/-5%	1.00
C021	44-AF680-J	26-AB0680-JZ1 CAP. CERAMIC 68 PF 50V +/-5%	1.00
C014	42-BF478-Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1.00
C013	44-AF300-J	26-AB0300-JZ1 CAP. CERAMIC 30 PF 50V +/-5%	1.00
C012	44-AF300-J	26-AB0300-JZ1 CAP. CERAMIC 30 PF 50V +/-5%	1.00
C011	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C010	42-BC101-Y	25-BC0101-U11 CAP. ELECTROLYTIC 100 MFD 16V	1.00
C009	42-BC470-Y	25-BC0470-U11 CAP. ELECTROLYTIC 47 MFD 16V	1.00
C005	42-BB102-Y	25-BB0102-U11 CAP. ELECTROLYTIC 1000 MFD 10V	1.00
C003	44-AF103-Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
C002	42-BC101-Y	25-BC0101-U11 CAP. ELECTROLYTIC 100 MFD 16V	1.00
C001	42-BD101-Y	25-BD0101-U11 CAP. ELEC. 100 UF 25V +50-20%	1.00
86-12837-1	54-12837-000	FIBRE TUBE - 2MM X 15MM	4.00
83-11397-4	54-113974-000	PVC TUBE AWG*6 L=10MM	2.00
83-11397-4	54-113974-000	PVC TUBE AWG*6 L=10MM	4.00
82-13393-1	67-133930-0E4	BRACKET - TRANSFORMER MOUNTING	1.00
81-13510-8	*****	INLAY - FRONT CONTROL (HR,MIN,	1.00
74-14147-6M	46-14147H-03C	HOUSING - POLE 3 #24 UL 1007	1.00
74-13902-6	46-13902H-02C	HOUSING - POLE 2 #24 WA3202	1.00
74-13796-6	46-13796H-02C	HOUSING - POLE 2 #24 UL 1007	1.00
74-13719-6	46-13719H-02C	HOUSING-POLE 2 WA3202 #26 1185	1.00
74-13709-6	46-13709H-02C	HOUSING-POLE 4 WA3204 #24	1.00
74-13522-6	46-13522H-06C	POLE HOUSING*6 WA3206 #24	1.00
74-12847T-6	46-12847H-03C	POLE HOUSING*3 #22 UL 1015	1.00
74-11308-6	46-11308H-03C	HOUSING - POLE 3 WA3203 #24	1.00
71-13966-1	64-139660-0EO	METAL WASHER 10 X 18MM 104I	1.00
71-13776-1	64-F30240-102	MR 3 X 24 (FLAT HEAD)	2.00
71-13437-1	65-A33070-05E	METAL WASHER 3.3 X 7	1.00
71-12860-1	64-B30060-102	SCREW SMB 3 X 6	2.00
71-11898-1	63-26080-BT4	SCREW TR 2.6 X 8	2.00
71-11117-1	63-P26060-BT4	TR 2.6 X 6 (BT)	5.00
71-10493-1	65-Z30050-23E	NUT M3	2.00
71-10114-A	63-P30100-AB2	SCREW TR 3 X 10	3.00
71-10114-A	63-P30100-AB2	SCREW TR 3 X 10	1.00
63-B3006-00B4	63-B30060-0B4	SCREW - S/T 3 X 6 (B)	2.00
55-20102-P00A	55-20102P-00A	PANEL - TUNING	1.00
49-20101-0000	49-201010-000	CONDUCTIVE RUBBER	1.00
46-20191-S091	46-20191S-091	PINS CONNECTOR - 9 PINS	0.50
46-20190-S041	46-20190S-041	PINS CONNECTOR - 4 PINS	0.50
46-20189-H02C	46-20189H-02C	HOUSING - POLE 3 #24 UL 1007	1.00
46-20188-H02C	46-20188H-02C	HOUSING - POLE 2 #24 UL 1007	1.00
46-20185-H04C	46-20185H-04C	HOUSING - POLE 4 #24 UL 1007	1.00
46-20172-S301	46-20172S-301	PINS CONN. - 30P/2.5MM PLASTIC	1.00
40-20178-10AA	40-20178I-0AA	PCB - PHONE JACK	1.00
40-20175-10AA	40-20175I-0AA	PCB - SELECTOR BOARD	1.00
33-13971-3	33-139713-0FZ	PCB - KEY BOARD	1.00
20-14149-6	41-E00420-6CC	WIRE #22 UL 1015 420MM/7MM	1.00
20-13782-1	41-DE0420-1CC	WIRE #22 UL 1015 420MM 7.7	1.00
20-13782-1	41-DE0420-1CC	WIRE #22 UL 1015 420MM 7.7	1.00
20-13614-b	41-BF0120-0BD	SOLID WIRE #24 UL 1007 120MM	1.00
20-13584-5	41-BF0140-5BB	WIRE #24 UL 1007 140MM 5.5	1.00
20-13583-4	41-BF0110-4BB	WIRE #24 UL 1007 110MM 5.5	1.00
20-13557-7	41-BF0160-7BB	SOLID WIRE #24 UL 1007 160MM	1.00
20-12329-0	41-BF0080-0BB	AWG 24 UL 1007 80MM BLACK	1.00
20-12325-2	41-BF0130-2BB	AWG 24 UL 1007 130MM RED	1.00
20-11357-5	41-BF0120-5BB	AWG 24 UL 1007 (T/C) 120MM	1.00
20-11047-8	41-BF0110-8BB	SOLID WIRE #24 UL 1007 GREY	1.00
20-11043-3	41-BF0160-3BB	AWG 24 UL 1007 (T/C) 160MM	1.00
11-13751-1	5o-137510-OHA	PUSH BUTTON	1.00
11-13619-1	62-13619-OHA	SPACER - SLIDE SWITCH	1.00
11-13524-1	56-135240-OHA	PUSH BUTTON 6X6MM - CONTROL	12.00
11-13502-1	55-135202-OHA	PANEL - CONTROL	1.00
11-13286-1	56-132860-OHA	PUSH BUTTON - POWER (A)	1.00
08-20181-0003	08-201810-003	ASSEMBLY - FRONT CABINET	1.00
TVA1 CABINET		ASSEMBLY - F/C CAB W/O GLASS	
13-13259-2	42-132592-000	SPEAKER 3 1/2" 16 OHM 1.5W	1.00
83-13451-1	59-134510-000	RUBBER PAD - 5x10x2	4.00
82-13394-2	6'-13394P-2AO	LOCK (ALUM.) - FRONT GLASS	2.00
82-11001-1	6'-110010-0EO	SPRING - CRT 6X18X0.5	1.00
82-10554-1	66-105540-0E4	CLAMP - SPEAKER	2.00
81-13461-1	50-134615-001	LOGO	1.00
81-13272-1	49-132721-000	FRONT GLASS	1.00
74-13902-6	44-13902H-02C	HOUSING - POLE 2 #24 WA3202	1.00
71-20238B-00E2	7-202380-0E2	LABEL - STATIC FOR CLOCK	1.00
71-13437	65-A33070-05E	METAL WASHER 3.3 X 7	1.00
71-13435	63-P30140-A84	SCREW TR 3 X 14	1.00
71-12688	63-P30180-A82	SCREW TR 3 X 18	3.00
71-12688	63-P30180-A82	SCREW TR 3 X 18	2.00
71-11899	63-P40350-A84	SCREW TR 4 X 35	4.00
71-10998-	65-A40090-06E	WASHER - 4 X 9	1.00
71-10993-	65-A45220-15E	WASHER - 4.5 X 22	4.00
71-10989-A	63-P35120-A84	SCREW TR 3.5 X 12	2.00
71-10946-A	63-P30080-A82	SCREW TR 3 X 8	2.00
70-20228B-00EB	70-202280-BEB	POINT OF SALE	1.00
63-B3015-00B4	63-B30150-0B4	SCREW TR 3 X 15 (B)	3.00
63-B30080-00B4	63-B30080-0B4	SCREW TR 3 X 8 (B)	2.00
58-20139-5001	58-20139S-001	LENS - DOOR	1.00

Part No.	Description	Quantity
Z	26-AB0473-ZF1 CAP. CERAMIC 0.047 UF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Y	25-BC0470-U11 CAP. ELECTROLYTIC 47 MFD 16V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
U	25-BC0332-U11 CAP. ELECTROLYTIC 3300 UF 16V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Y	25-BF0109-U11 CAP. ELECTROLYTIC 1 UF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
J	26-AB0330-JZ1 CAP. CERAMIC 33 PF 50V +/-5%	1.00
Y	25-BF0220-U11 CAP. ELECTROLYTIC 22 MFD 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Y	25-BF0470-U11 CAP. ELECTROLYTIC 47 MFD 50V	1.00
J	26-AB0470-JZ1 CAP. CERAMIC 47 PF 50V +/-5%	1.00
J	26-AB0330-JZ1 CAP. CERAMIC 33 PF 50V +/-5%	1.00
J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
K	26-AB0222-KB1 CAP. CERAMIC 2200 PF 50V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
J	26-AB0151-JC1 CAP. CERAMIC 150PF 50V	1.00
J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
J	26-AB0101-JZ1 CAP. CERAMIC 100 PF 50V +/-5%	1.00
K	25-BE0228-K31 CAP. TANTALUM 0.22UF +/-10%	1.00
M	25-BE0478-M31 CAP. TANTALUM 0.47 UF 35V	1.00
J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00
Z	26-AB0203-ZF1 CAP. CERAMIC 20N 50V +80-20%	1.00
J	26-AB0220-JZ1 CAP. CERAMIC 22 PF 50V +/-5%	1.00
J	26-AB0680-JZ1 CAP. CERAMIC 68 PF 50V +/-5%	1.00
J	26-AB0680-JZ1 CAP. CERAMIC 68 PF 50V +/-5%	1.00
Y	25-BF0478-U11 CAP. ELECTROLYTIC 0.47 UF 50V	1.00
J	26-AB0300-JZ1 CAP. CERAMIC 30 PF 50V +/-5%	1.00
J	26-AB0300-JZ1 CAP. CERAMIC 30 PF 50V +/-5%	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Y	25-BC0101-U11 CAP. ELECTROLYTIC 100 MFD 16V	1.00
Y	25-BC0470-U11 CAP. ELECTROLYTIC 47 MFD 16V	1.00
Y	25-BC0102-U11 CAP. ELECTROLYTIC 1000 MFD 10V	1.00
Z	26-AB0103-ZF1 CAP. CERAMIC 0.01 UF 50V	1.00
Y	25-BC0101-U11 CAP. ELECTROLYTIC 100 MFD 16V	1.00
Z	25-BD0101-U11 CAP. ELEC. 100 UF 25V +50-20%	1.00
1	54-128370-000 FIBRE TUBE 2MM X 15MM	4.00
4	54-113974-000 PVC TUBE AWG=6 L=10MM	2.00
4	54-113974-000 PVC TUBE AWG=6 L=10MM	4.00
1	67-133930-0E4 BRACKET - TRANSFORMER MOUNTING	1.00
B	***** INLAY - FRONT CONTROL (HR. MIN.	1.00
6M	46-14147H-03C HOUSING - POLE 3 #24 UL 1007	1.00
6	46-13902H-02C HOUSING - POLE 2 #24 WA3202	1.00
6	46-13796H-02C HOUSING - POLE 2 #24 UL1007	1.00
6	46-13719H-02C HOUSING-POLE 2 WA3202 #26 1185	1.00
6	46-13709H-04C HOUSING-POLE 4 WA3204 #24	1.00
6	46-13522H-06C POLE HOUSING#6 WA3206 #24	1.00
6	46-12847H-03C POLE HOUSING#3 #22 UL 1015	1.00
6	46-11308H-03C HOUSING - POLE 3 WA3203 #24	1.00
6	60-139660-0E0 METAL WASHER 10 X 18MM 104I	1.00
6	64-F30240-102 MR 3 X 24 (FLAT HEAD)	2.00
6	65-A33070-05E METAL WASHER 3.3 X 7	1.00
6	64-B30060-102 SCREW SMB 3 X 6	2.00
6	63-P26080-BT4 SCREW TR 2.6 X 8	2.00
6	63-P26060-BT4 TR 2.6 X 6 (BT)	5.00
1	65-Z30050-23E NUT M3	2.00
A	63-P30100-AB2 SCREW TR 3 X 10	3.00
A	63-P30100-AB2 SCREW TR 3 X 10	1.00
A	63-P30100-AB2 SCREW TR 3 X 10	2.00
D0B4	63-B30060-084 SCREW - S/T 3 X 6 (B)	2.00
P004	55-20102P-00A PANEL - TUNING	1.00
0000	49-201010-000 CONDUCTIVE RUBBER	1.00
S091	46-20171S-091 PINS CONNECTOR - 9 PINS	0.50
S041	46-20105S-041 PINS CONNECTOR - 4 PINS	0.50
H02C	46-20189H-02C HOUSING - POLE 2 #24 UL 1007	1.00
H02C	46-20188H-02C HOUSING - POLE 2 #24 UL 1007	1.00
H04C	46-20185H-04C HOUSING - POLE 4 #24 UL 1007	1.00
S301	46-20172S-301 PINS CONN. - 30P=2.5MM PLASTIC	1.00
O0AA	40-201781-0AA PCB - PHONE JACK	1.00
10AA	40-201751-0AA PCB - SELECTOR BOARD	1.00
3	33-139713-0FZ PCB - KEY BOARD	1.00
6	41-EE0420-6CC WIRE #22 UL 1015 420MM/7MM	1.00
1	41-DE0420-1CC WIRE #22 UL 1015 420MM 7.7	1.00
1	41-DE0420-1CC WIRE #22 UL 1015 420MM 7.7	1.00
1	41-BF0100-0BD SOLID WIRE #24 UL 1007 120MM	1.00
5	41-BF0140-5BB WIRE #24 UL 1007 140MM 5.5	1.00
4	41-BF0110-4BB WIRE #24 UL 1007 110MM 5.5	1.00
7	41-BF0160-7BB SOLID WIRE #24 UL 1007 160MM	1.00
4	41-BF0080-0BB AWG 24 UL 1007 80MM BLACK	1.00
2	41-BF0130-2BB AWG 24 UL 1007 130MM RED	1.00
5	41-BF0120-5BB AWG 24 UL 1007 (T/C) 120MM	1.00
1	41-BF0110-8BB SOLID WIRE #24 UL 1007 GREY	1.00
4	41-BF0160-3BB AWG 24 UL 1007 (T/C) 160MM	1.00
5	41-137510-0HA PUSH BUTTON	1.00
6	62-136190-0HA SPACER - SLIDE SWITCH	1.00
56	135240-0HA PUSH BUTTON 6X6MM - CONTROL	12.00
55	135020-0HA PANEL - CONTROL	1.00
56	132860-0HA PUSH BUTTOM - POWER (A)	1.00
0003	08-201810-003 ASSEMBLY - FRONT CABINET	1.00
ET	ASSEMBLY - F/CAB W/O GLASS	1.00
42-132592-000 SPEAKER 3 1/2" 16 OHM 1.5W	1.00	
59-134510-000 RUBBER PAD - 5x10x2	4.00	
67-13394P-240 LOCK (ALUM.) - FRONT GLASS	2.00	
67-110010-0E0 SPRING - CRT 6X18X0.5	1.00	
66-105540-0E4 CLAMP - SPEAKER	2.00	
50-134615-001 LOGO	1.00	
49-132721-000 FRONT GLASS	1.00	
46-13902H-02C HOUSING - POLE 2 #24 WA3202	1.00	
7-202380-0E2 LABEL - STATIC FOR CLOCK	1.00	
65-A33070-05E METAL WASHER 3.3 X 7	1.00	
63-P30140-AB4 SCREW TR 3 X 14	1.00	
63-P30180-AB2 SCREW TR 3 X 18	3.00	
63-P30180-AB2 SCREW TR 3 X 18	2.00	
63-P40350-AB4 SCREW TR 4 X 35	4.00	
65-A40090-06E WASHER - 4 X 9	1.00	
65-A45220-15E WASHER - 4.5 X 22	4.00	
63-P35120-AB4 SCREW TR 3.5 X 12	2.00	
63-P30080-AB2 SCREW TR 3 X 8	2.00	
BEB	71-202280-BEB POINT OF SALE	1.00
DB4	65-B30150-0B4 SCREW TR 3 X 15 (B)	3.00
DB4	65-B30080-0B4 SCREW TR 3 X 8 (B)	2.00
DOI	SH-20139S-001 LENS - DOOR	1.00

Location No.	Part No.	Description	Quantity	
	58-20138-S001	LENS - TUNING PANEL	1.00	
	55-20103-P004	DOOR - FRONT	1.00	
	54-20220-00U0	SPONGE CUSHION-SPK PROTECTIVE	1.00	
	51-10781-1	COIL - DEGAUSSING (14")	1.00	
	20-10155-1	BRAIDED FLAT WIRE (1.100MM)	1.00	
	15-13632-1	CRT - COLOR 14"	1.00	
	11-13270-1	LOCK (UPPER R) - FRONT GLASS	1.00	
	11-13269-1	LOCK (UPPER L) - FRONT GLASS	1.00	
	11-13261-1	GRILLE (R) - SPEAKER	1.00	
	11-13260-1	GRILLE (L) - SPEAKER	1.00	
	11-13257-1	HOLDER - PCB	2.00	
	11-13083-3	RAIL STAND (R)	1.00	
	11-13083-2	RAIL STAND (L)	1.00	
	11-13077-2	RAIL STAND (L)	1.00	
	11-11897-1	CABINET - FRONT 14" SQ	1.00	
	11-10903-1	SPACER - CRT MOUNTING	4.00	
	11-10903-1	SPACER - CRT MOUNTING	2.00	
	11-10073-2	HOLDER - AC POWER CORD	1.00	
	05-13450-1	LABEL - WARNING "CAUTION"	1.00	
	03-13771-3	08-137710-003 ASSEMBLY - REAR CABINET	1.00	
	83-11400-1	FELT TAPE - 150 x 19MM	4.00	
	82-13674-1	PLATE - ANTENNA TERMINAL	2.00	
	81-11484-1	PLATE - MODEL NO.	1.00	
	71-10999-A	SCREW TR 3.5 X 14	4.00	
	71-10998	WASHER - 4 X 9	2.00	
	51-11110-1	300:75 OHM MATCH COIL	1.00	
	33-13755-1	PCB - ANTENNA MATCHING	1.00	
	28-11134-1	LOOP ANTENNA (14" U.K. CTV)	1.00	
	20-11263-0	41-PG0400-040	75 OHM COAXIAL CABLE 400MM	1.00
	11-14085-1	62-140850-0HA BACK COVER	1.00	
	11-13078-1	55-130780-1HA CABINET -REAR 14" SQ	1.00	
	11-13739-1	62-113790-0HA ANTENNA CORD BUSHING	1.00	
	03-13768-3	08-137680-003 ASSEMBLY - POWER BOARD	1.00	
TB01	57-132781-A00	FILTER - AC LINE	1.00	
T003	51-12054-2	SUBMINIATURE RELAY ULT-1M-5	1.00	
R800	36-BE0105-K	RES. CARBON COMPOSITION	1.00	
PB03	74-12866-6	POLE PIN BASE#2 WP9002	1.00	
F801	30-10272-1	50-02000D-100 FUSE 2AT 250VAC 3 X 20 MM	1.00	
CB00	46-M0224-M	27-MGA224-M01 CAP. METALLIZED POLYESTER	1.00	
	83-11397-1	54-113971-000 PVC TUBE (PRICE/FT.) #6 L=20MM	2.00	
	74-10968-2	46-109680-0E2 WRAPPING POST 2.1X21 POWER PCB	4.00	
	71-10167-1	66-101670-0E2 HOLDER - FUSE	2.00	
	33-13429-1	33-134291-0AA P.C.B. - POWER	1.00	
	20-11260-1	51-C00219-OCA AC POWER CORD (BS 6300)	1.00	
	11-12949-1	62-129490-0MF SPACER SUPORT - NYLON	3.00	
	05-11390-1	71-113900-0A2 POWER CORD LABEL (95 X 43)MM	1.00	
	08-20182-0003	08-201820-003 ASSEMBLY - PACKING	1.00	
	70-201833-AE0	70-201833-AE0 OPERATION MANUAL	1.00	
	05-13412-1	74-081081-60C POLYBAG FOR TV SET	1.00	
	05-13411-1	75-134111-000 POLYFOAM SET FOR TV SET	1.00	
	05-13409-1	76-13409X-02A CARTON - 14" TV	1.00	
	05-11398-1	71-113980-0AO SERIAL NO. LABEL (PRICE/PC.)	2.00	
	08-20166-0003	08-201660-003 ASSEMBLY - I.R. TRANSMITTER	1.00	
X1	27-12055-0	45-120550-200 CERAMIC RESONATOR CSB425E	1.00	
R2	36-CD221-1	18-C00221-JD1 RES. CARBON FILM 220 OHM 1/4W	1.00	
R1	36-CD109-1	18-CD0109-J81 RES. CARBON FILM I OHM 1/4W	1.00	
Q1	14-10001-0	11-08C338-001 TRANSISTOR BC 338	1.00	
IC1	13-M5046-000P	13-M50460-001P I.C. - MS0460-001P	1.00	
D2	14-10273-1	10-1N4148-0A2 DIODE IN4148 (SWITCHING)	1.00	
D1	14-10251-1	15-OTS542-042 INFRARED DIODE TSU5402	1.00	
C4	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00	
CJ	44-AF221-J	26-AB0221-JZ1 CAP. CERAMIC 220 PF 50V +/-5%	1.00	
C2	44-AF102-K	26-AB0102-KB1 CAP. CERAMIC 1000 PF 50V	1.00	
C1	49-BB100-K	25-BB0100-K31 CAP. TANTALUM 10UF 10V +/-10%	1.00	
	67-20224-00P2	***** BATTERY CONTACT (+/-)	1.00	
	67-20223-00P2	***** BATTERY TERMINAL (-)	1.00	
	67-20222-00P2	***** BATTERY TERMINAL (+)	1.00	
	63-P26100-A02	SCREW - S/T, P 2.6 X 10- (A)	1.00	
	58-20090-5201	58-200905-201 INLAY - REMOTE CONTROL	1.00	
	56-20087-00HA	56-200870-0HA LENS - REMOTE CONTROL	1.00	
	55-20088-00HA	55-200880-0HA DOOR - BATTERY	1.00	
	55-20086-00HA	55-200860-0HA CASE - BOTTOM, REMOTE HANDSET	1.00	
	55-20085-00HA	55-200850-0HA CASE - TOP, REMOTE HANDSET	1.00	
	49-20089-0000	49-200890-0000 CONDUCTIVE RUBBER - 30 KEY PAD	1.00	
	40-20199-10FX	40-201991-0FX PCB - IR TRANSMITTER	1.00	
	20-12198-2	41-010075-2BB WIRE - BATTERY 75MM/4MM RED	1.00	
	20-12198-0	41-Q10075-0BB WIRE - BATTERY 75MM/4MM -	1.00	
	05-14104-1	74-008020-60C POLYBAG FOR HANDSET BOX200MM	1.00	
	08-20167-0000	08-201670-000 ASSEMBLY - I.R. PRE-AMPLIFIER	1.00	
VR1302	20-20126-0203	20-201260-203 TRIMMER 20K OHM B-TYPE	1.00	
R1303	36-CB223-J	18-CB0223-JB1 RES. CARBON FILM 22K OHM 1/16W	1.00	
R1302	18-CB019-4JB1	18-CB0194-JB1 RES. CARBON FILM 190K 1/16W	1.00	
R1301	18-CB047-9JB1	18-CB0479-JB1 RES. CARBON FILM 4.7 OHM 1/16W	1.00	
IC1300	13-CX201-06AS	13-CX2010-6AS I.C. - CX20106A	1.00	
D1301	14-10252-1	15-008PW4-1NE IR DIODE BPW4IN	1.00	
C1303	44-AF331-J	26-AB0331-JZ1 CAP. CERAMIC 330 PF 50V +/-5%	1.00	
C1302	25-BF033-9M1B	25-BF0339-M1B CAP. ELECTROLYTIC 3.3 UF 50V	1.00	
C1301	25-BF010-9M1B	25-BF0109-M1B CAP. ELECTROLYTIC 1 UF 50V	1.00	

SERVICE ADJUSTMENTS

FOCUS ADJUSTMENT

Adjust focus control on the horizontal output transformer (T414) for maximum overall definition and fine detail with brightness and contrast controls set at normal viewing levels.

DELAY AGC ADJUSTMENT

1. Connect TV channel signal generator to antenna jack.
2. Adjust TV channel signal generator output level to 1.585 mV (64dBu), channel 21.
3. Turn AGC delay control (VR117) on main board to fully clockwise position and set AFT to on position.
4. Turn VR117 counter clockwise slowly until snow noise just disappears on screen.

HORIZONTAL OSCILLATOR ADJUSTMENT

Turn the horizontal oscillator control (VR907) clockwise and counter clockwise to find the pull in range of the horizontal oscillator. Then turn VR907 to the centre of the pull in range.

HORIZONTAL CENTERING ADJUSTMENT

At nominal 240V AC line voltage, adjust horizontal centering control (VR242) until there is equal amount of overscanning on left and right side of screen.

VERTICAL CENTERING ADJUSTMENT

At nominal 240V AC line voltage, adjust vertical centering control (VR315) until there is equal amount of overscanning at top and bottom of screen.

SUB-BRIGHT ADJUSTMENT

1. Connect test pattern generator (PAL-I signal, 1.585 mV 64 dBu, channel 21) to antenna jack through TV channel signal generator.
2. Set the contrast, brightness and colour controls to minimum.
3. Adjust sub-bright control (VR216) until the whole screen just become completely dark.

COLOUR SYNC. ADJUSTMENT

1. Connect colour bar pattern generator (PAL-I signal, 1.585 mV 64dBu, channel 21) to antenna jack through TV channel signal generator and allow the TV set warm up for 5 minutes.
2. Connect test point TP-43 to chassis ground with a jumper.
3. Connect a 10K ohm resistor across pin 2 and pin 12 of IC201 so as to turn off colour killer.
4. Adjust colour sync. control (VR227) so that the colour bar pattern stands still or drifts slowly across the picture screen.
5. Remove the 10K ohm resistor and the jumper.

WHITE BALANCE ADJUSTMENT

1. Connect grey scale pattern generator (PAL-I signal, 1.585 mV 64dBu, channel 21) to antenna jack through TV channel signal generator and allow the TV set warm up for 15 minutes.
2. Set colour control to minimum.
3. Set brightness control to normal viewing level and contrast control to maximum.
4. Set the green drive (VR511), blue drive (VR510), red cut off (VR520), green cut off (VR501) and blue cut off (VR503) controls to center of their rotation ranges.
5. Disconnect the raster terminal on the main board and short terminals (J) and (H) with a jumper.
6. Rotate the screen control on horizontal drive transformer (T414) gradually from fully counter clockwise position clockwise until a dim horizontal line appears on the screen.
7. Rotate VR501 and VR503 until a dim white line is obtained.
8. Remove the jumper and connect back the raster terminal.
9. Set brightness control to maximum.
10. Adjust VR511 and VR510 until a good white balance at the brightest column is obtained.

11. Adjust VR501 and VR503 until a good white balance column is obtained.
12. Repeat steps 10 and 11 until good white balance is c brightest and the least bright columns.

GENERAL ALIGNMENT

TEST EQUIPMENT:

- Video IF sweep/marker generator — capable of gene 39.5MHz.
- Oscilloscope — wide band.
- Power supply — a well filtered DC power supply ca volts and at least 250 mA of curr
- Sound IF sweep/marker generator — capable of gen 6MHz.

A warm-up period of at least 15 minutes should be allowed stabilization of equipment such as sweep/marker genera

SIGNAL OVERLOAD

Use of excessive signal from the sweep/marker generator of the receiver circuits. To determine that this condition the response curve is true, turn the sweep/marker gene then gradually increase of the sweep output should not configuration of the response except in amplitude. If the configuration, such as flattening at the top or dropping the bottom, decrease the sweep output to restore the pi The oscilloscope gain should be run as high as possible pattern with the peak-to-peak values specified, thus requ output from sweep/marker generator and less chance of markers from the sweep/marker generator should not ca response.

CAUTION

Remove the AC power plug before making any test equ

IF ALIGNMENT

1. Remove IF link cable from tuner.
2. Supply 12V DC to pin 20 of IC101 and bias pin 5 of figure 1.

POWER AND AGC BIAS SUPPLY

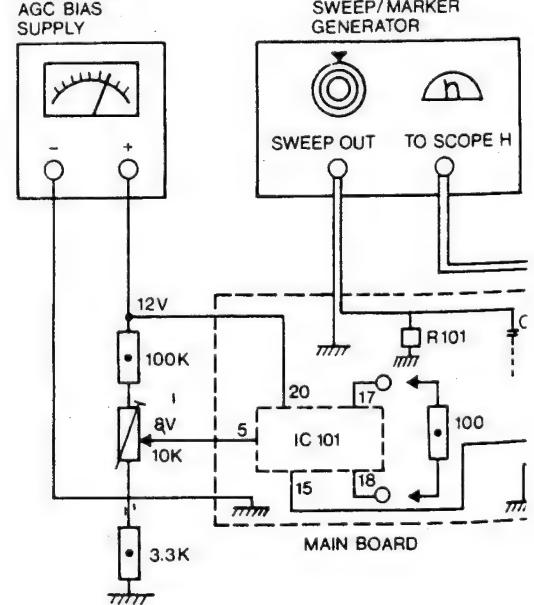


Fig.1 Picture I-F Sweep Alignment

3. Connect video IF sweep/marker generator output to junction of R101 and C101.
 4. Connect oscilloscope direct probe to IC101 pin 15 through a 100K ohm resistor.
 5. Adjust T127 for maximum gain at 39.5MHz
 6. Connect a 100 ohm resistor across IC101 pins 17 and 18.
 7. Adjust T114 for maximum gain at 39.5MHz.

SIF DETECTOR

1. Remove IF link c
 2. Supply 12V DC
 3. Connect a 1K o
 4. Connect sound capacitor as shc

AFT ALIGNMENT

1. Remove IF link cable from tuner.
 2. Supply 12V DC to pin 20 of IC101 and bias pin 5 of IC101 to 8V as shown in figure 2.

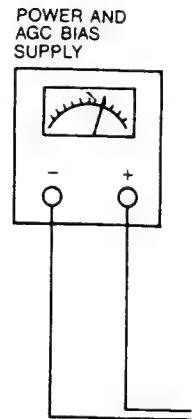


Fig.4 Sound De

5. Connect oscilloscope to 1uF capacitor.
 6. Adjust T104 for 1

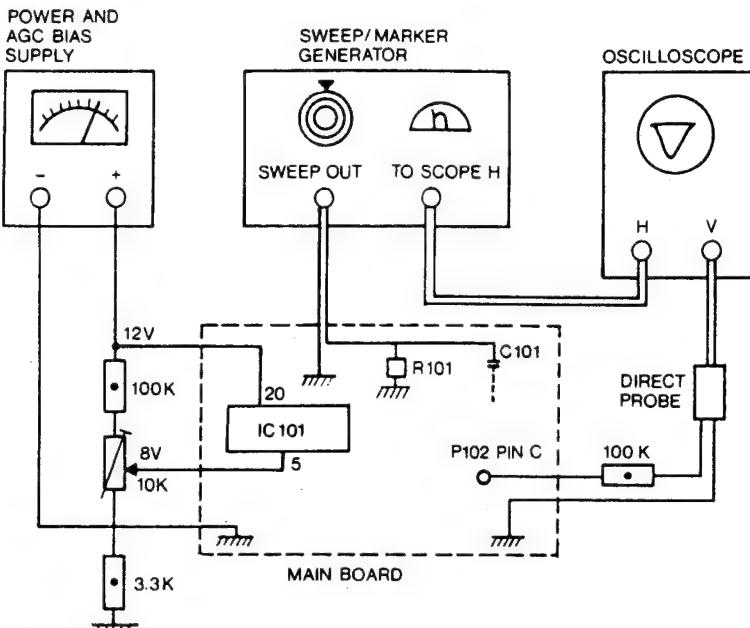


Fig.2 AFT Alignment

3. Connect video IF sweep/marker generator output to junction of R101 and C101.
 4. Slide AFT switch to on position.
 5. Connect oscilloscope direct probe to pin D of connector P102.
 6. Adjust T131 for response shown in figure 3.

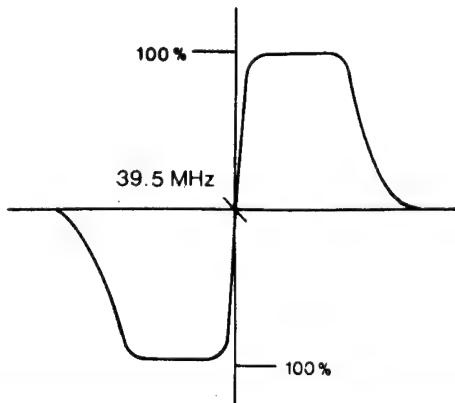


Fig.5 Sound De

IR TRANSMITTER

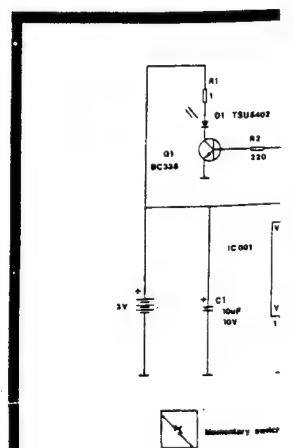
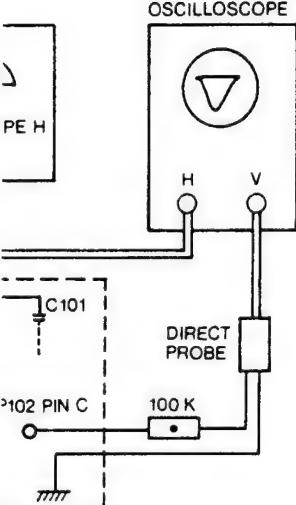


Fig.3 AFC Responses

Alignment

tput to junction of R101 and
n 15 through a 100K ohm
s 17 and 18.

in 5 of IC101 to 8V as shown in



SIF DETECTOR COIL ALIGNMENT

1. Remove IF link cable from tuner.
2. Supply 12V DC to pin 20 of IC101.
3. Connect a 1K ohm resistor across pin 5 and 12 of IC101.
4. Connect sound IF sweep/marker generator output to TP14 through a 0.01u capacitor as shown in figure 4.

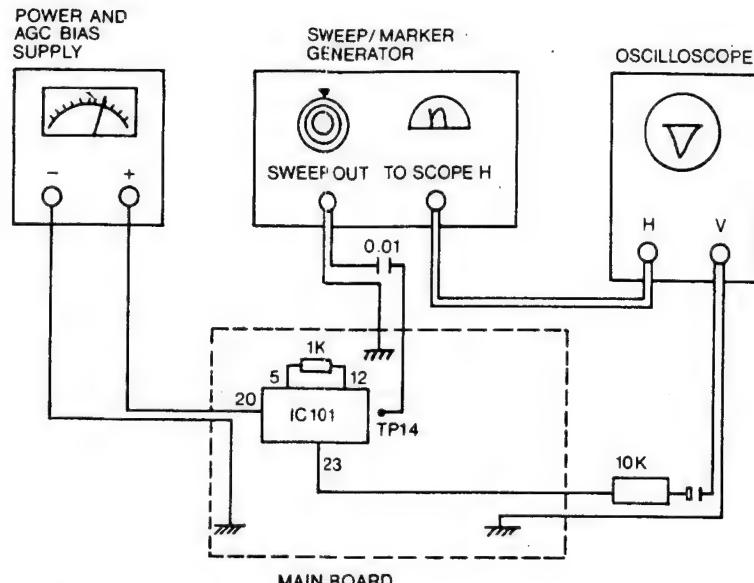


Fig.4 Sound Detector Alignment

5. Connect oscilloscope probe to IC101 pin 23 through a 10K ohm resistor and a 1uF capacitor.
6. Adjust T104 for response shown in figure 5.

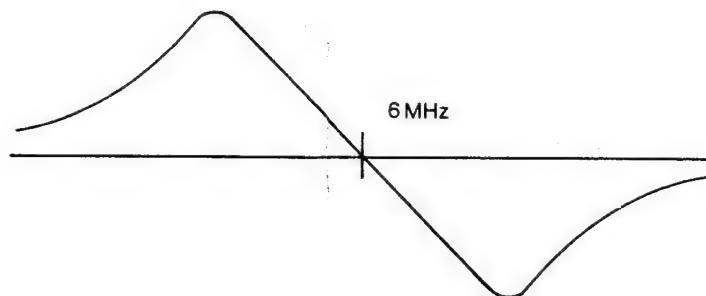
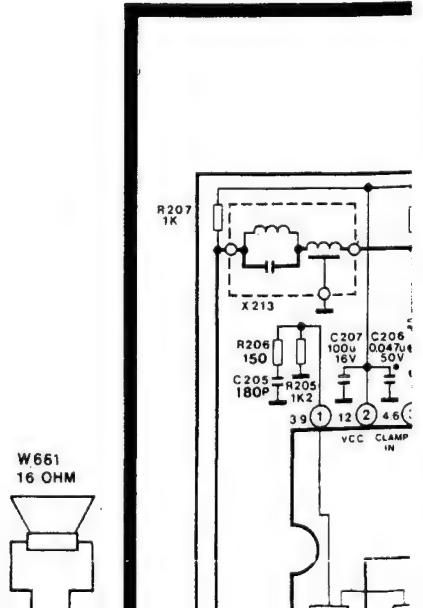
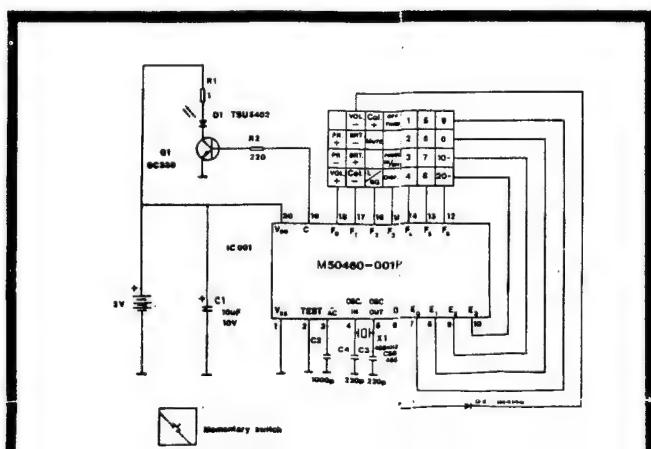


Fig.5 Sound Detector Response Curve

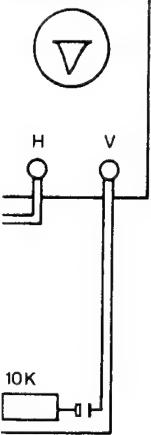
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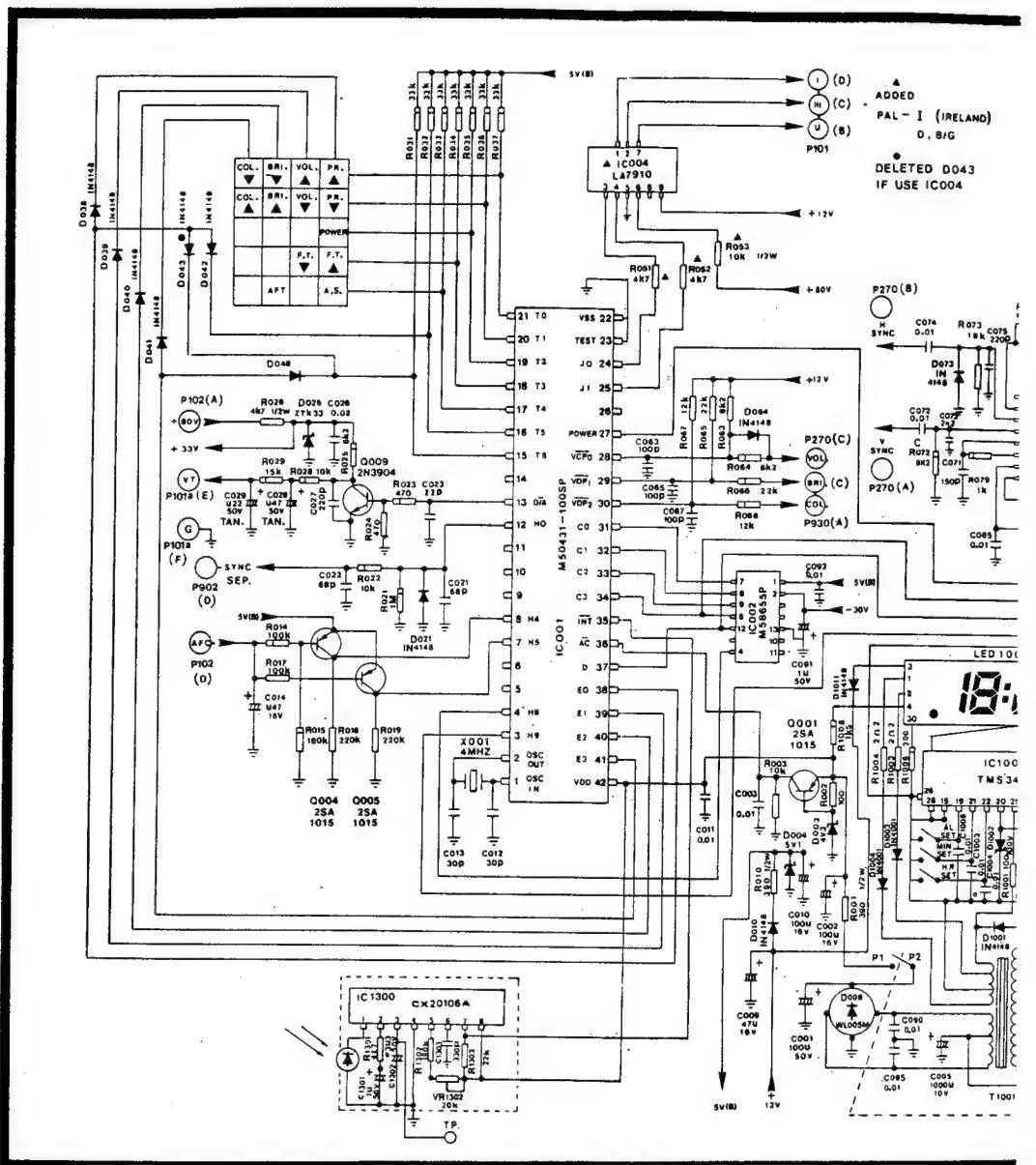
SELECTOR BOARD

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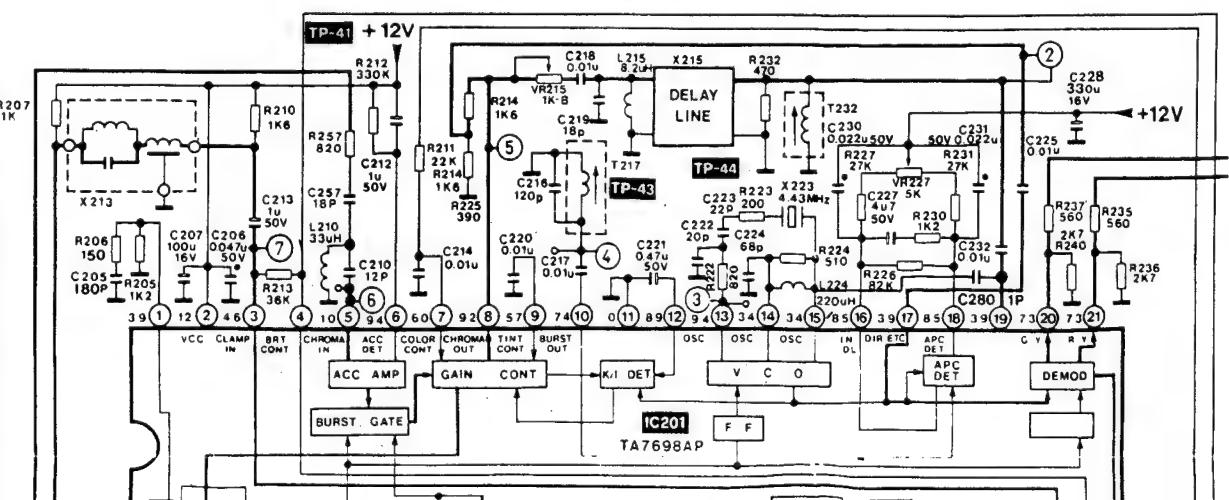
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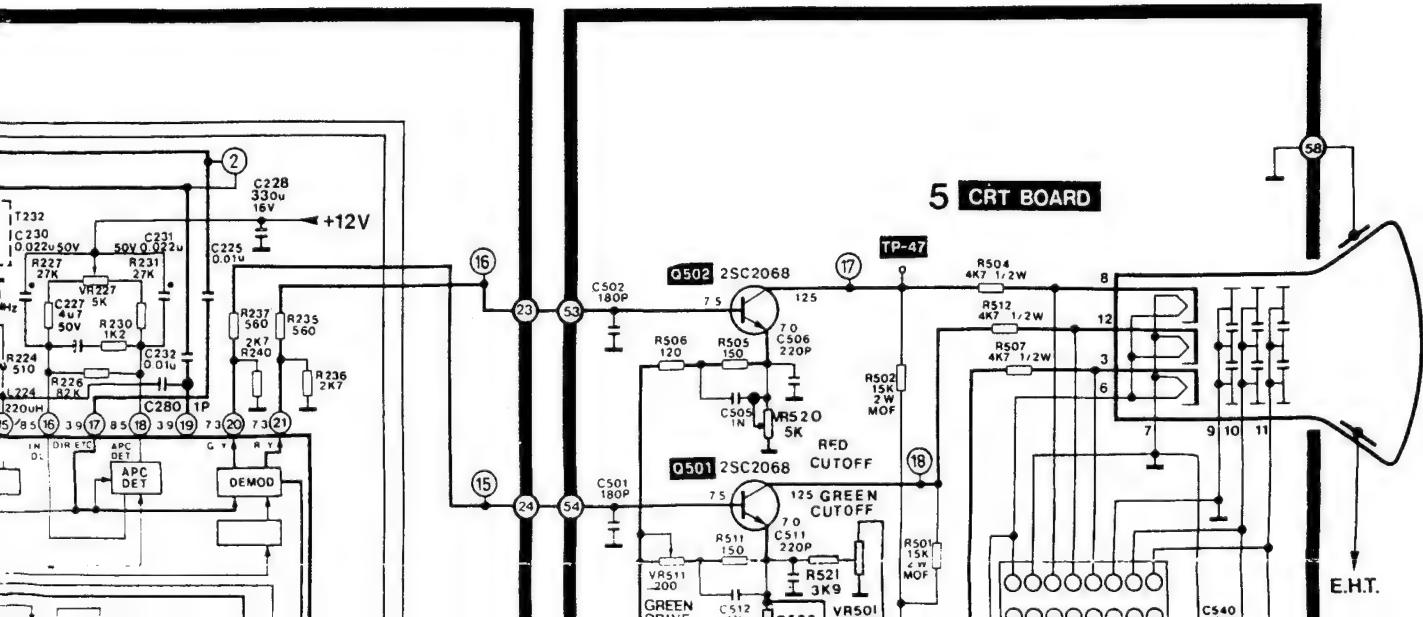
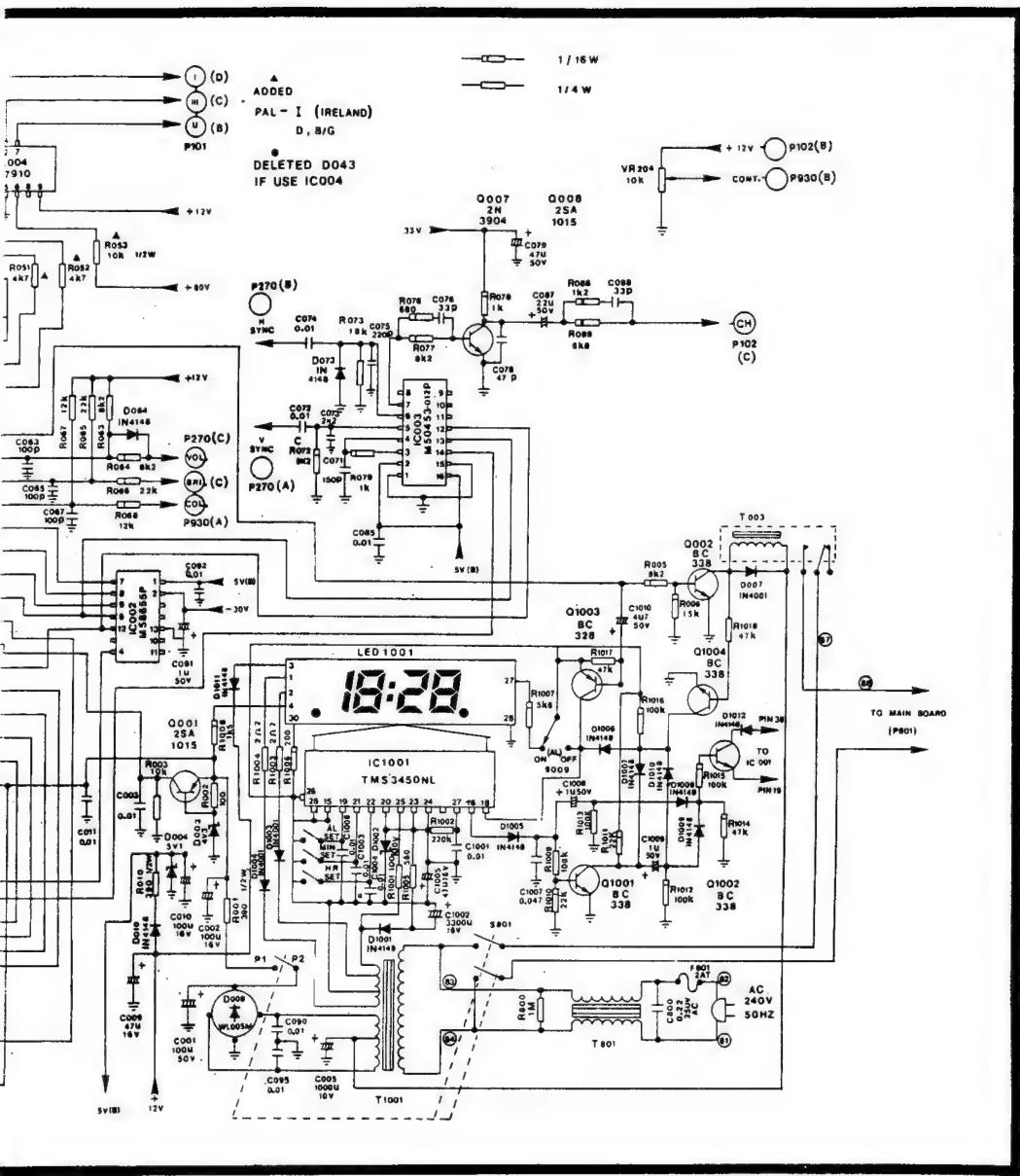


m resistor and



2 CHROMA DECODER





SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION," "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" DESCRIBED BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 24.5 kv at zero beam current (minimum brightness) under 220/240 volts AC power source. The high voltage must not, under any circumstances, exceed 26.5 kv. B+ voltage closely relates to the high voltage. To prevent hazardous X-RAY RADIATION, the B+ voltage must be not exceed +124 volts.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some parts in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

1. Potentials as high as 23,000 volts are present when this receiver is operating. Operation of the receiver outside the cabinet or with the back board removed involves a shock hazard from the receiver.
1. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment.
2. Always discharge the picture tube anode to the receiver chassis to keep off the shock hazard before removing the anode cap.
3. Perfectly discharge the high potential of the picture tube before handling the tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled.
2. If any Fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.
3. When replacing parts or circuit boards, wind the lead wires around terminals before soldering.
4. When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor 10mm away from circuit board.
5. Keep wires away from high voltage or high temperature components.
6. This receiver can be operated under AC 220/240 volts, 50 Hz. NEVER connect to DC supply or any other power or frequency.
7. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 220/240 AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:
Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 mfd, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 mfd capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately

Good earth
such as a v
pipe, condu

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220/240 volts, colour bar signal.
2. Voltages reading may vary +/- 20%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and COLOUR controls for best picture, make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position.
6. Waveforms are taken using a standard colour bar signal.

NOTES:

1. D.C. resistance value of a principal component in schematic diagram. These are measured.
2. The circuits are subject to change.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and

1. Resistance is shown in ohm, k = 1,000 ohms.
2. Unless otherwise noted in schematic, values are expressed in mfd and the value is in microfarads.
3. Unless otherwise noted in schematic, values are expressed in uH, and the value is in microhenrys.

This manual is the latest at the time of printing, and does not include the modifications made by the constant improvement of product, which may be made after the printing.

HINARI CONSUMER ELECTRONICS LTD

20-22 Payne Street, Port Dundas, Glasgow G4 0LF. Tel: 041-332 7795

Because we continually strive to improve our products, we may change specifications without prior notice.

CCTIONS

AUTION." "SAFETY PRECAUTION"

PRODUCT SAFETY NOTICE

X-RAY RADIATION in this TV receiver have speical safety-
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be type tube as specified in the

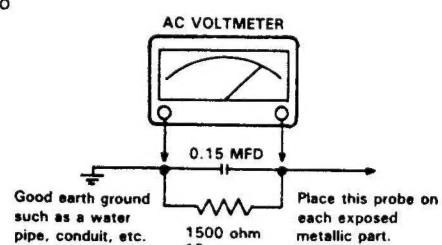
receiver have speical safety-
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NOTICE below.

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'C supply or any other power or
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, between a known good earth
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ot exceed 0.3 volts RMS. This
ial shock hazard and must be

Many electrical and
mechanical parts in this
chassis have special safety-
related characteristics. These
characteristics are often
passed unnoticed by a visual
inspection and the X-RAY
RADIATION protection
afforded by them cannot
necessarily be obtained by
using replacement
components rated for higher
voltage, wattage, etc.
Replacement parts which
have these special safety
characteristics are identified
in this manual and its
supplements; electrical
components having such
features are identified by
shading on the schematic
diagram and the parts list.
Before replacing any of these
components, read the parts
list in this manual carefully.
The use of substitute
replacement parts which do
not have the same safety
characteristics as specified in
the parts list may create X-
RAY RADIATION.



NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.

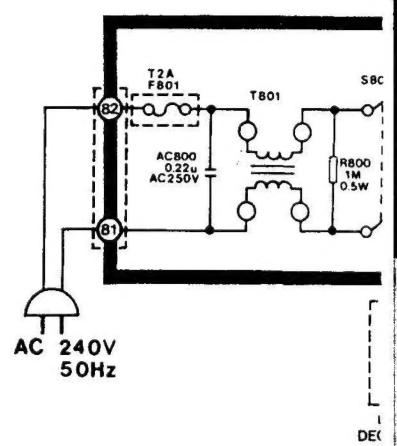
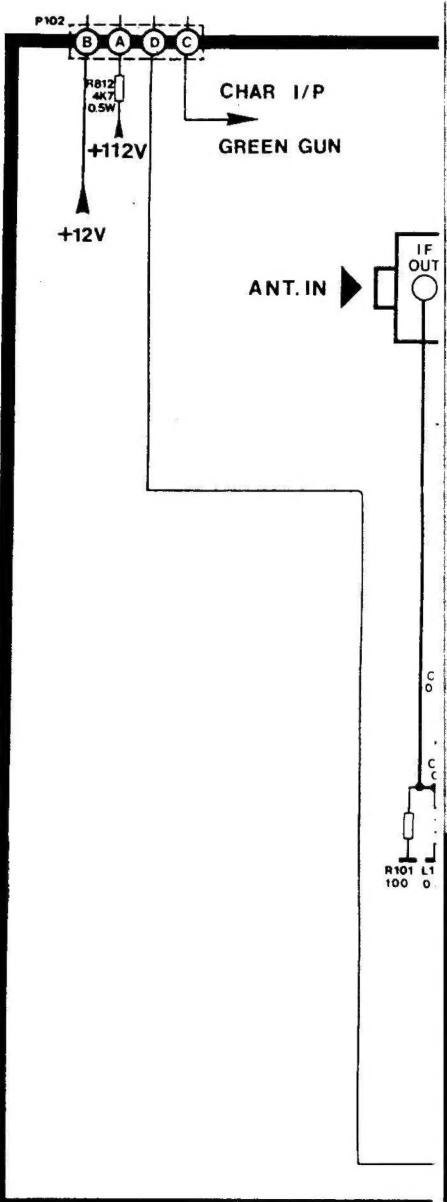
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k = 1,000, M = 1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in mfd and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in uH, and the values less than 1 in H.

This does not include the modifications
y be made after the printing.

MAIN BOARD

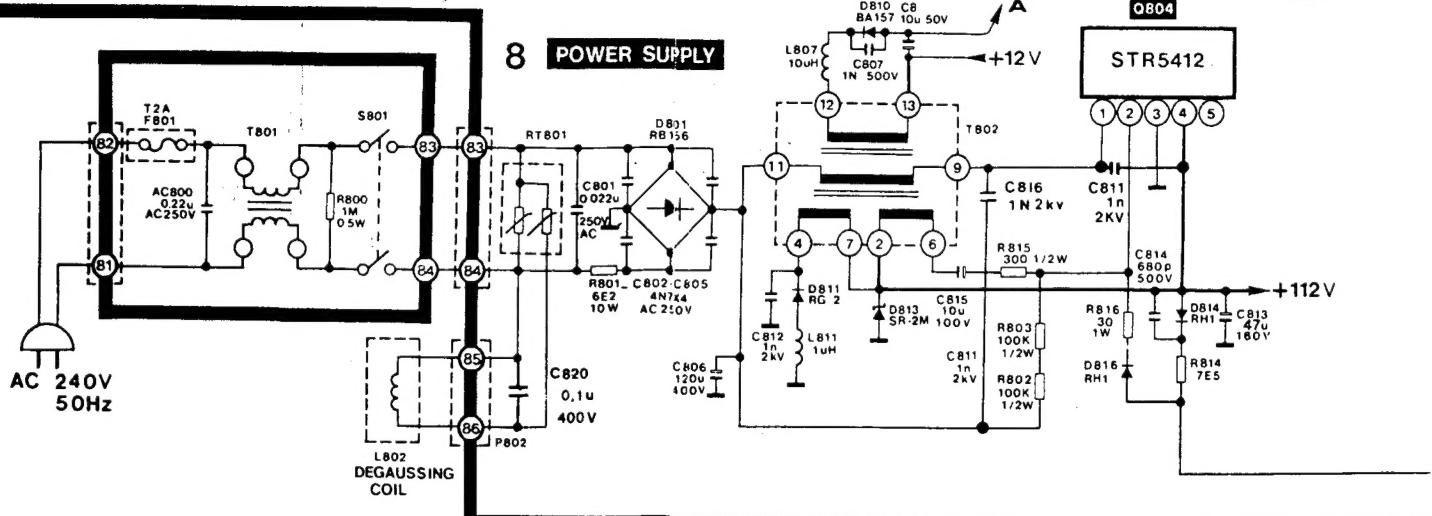
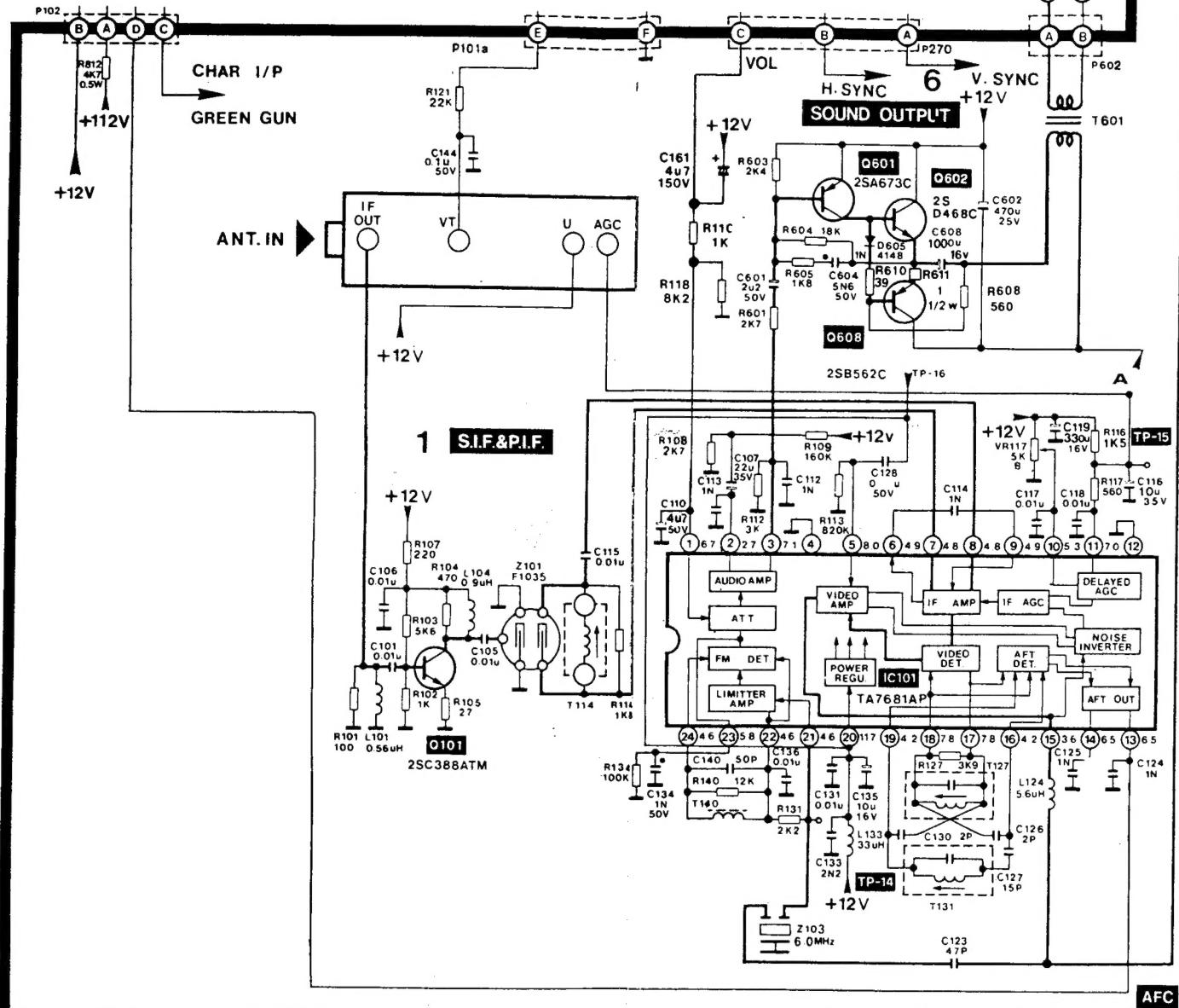


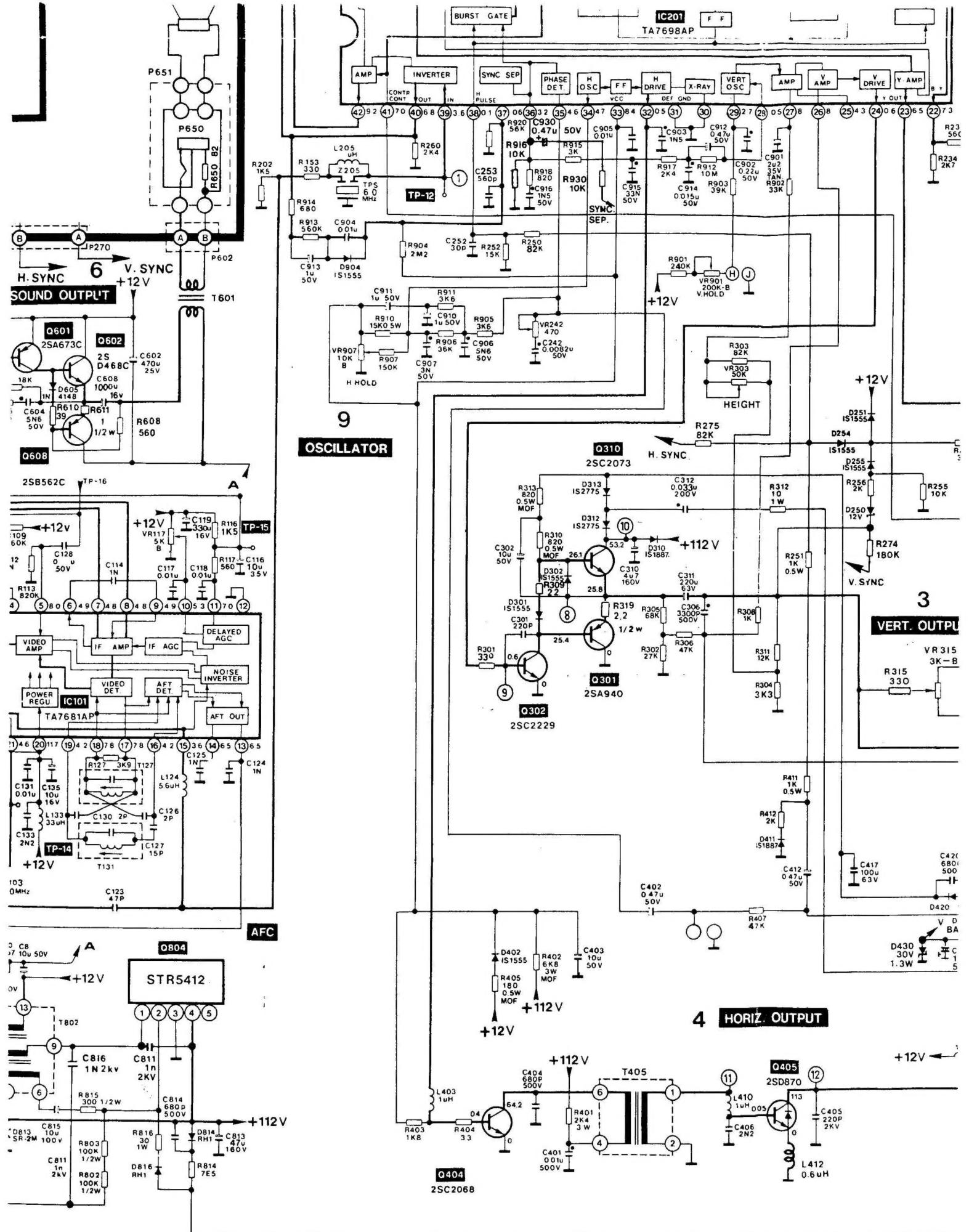
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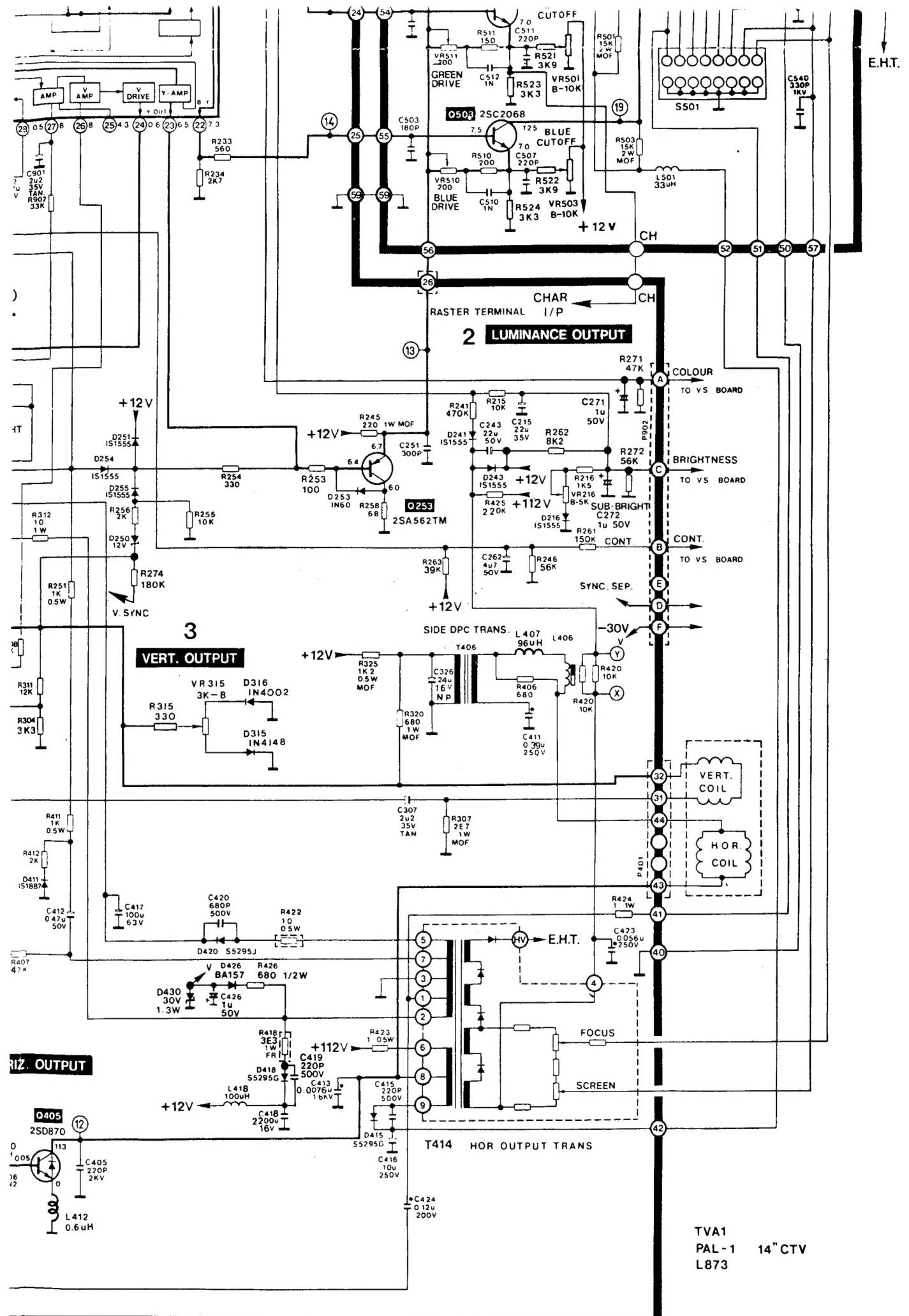
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May change specifications without prior notice.

MAIN BOARD







(SUBJECT TO CHANGE WITHOUT NOTICE)